

Swope, Sheridan

From: Schreiber, David
Sent: Wednesday, March 10, 2004 3:06 PM
To: Swope, Sheridan
Cc: O'Bryen, Barbara
Subject: Proposal 09/966,880

The full run that you would requested would take 65 hours of run time. As I mentioned, we are proposing to run seq 9, std & oligo, interference databases and seq 10 and 11, std & oligo, in all databases including interference. The run time for our proposed search is about 31 hours. We have at least 80 hours in each queue including the dedicated rush queue.

David Schreiber, Ph.D.
Scientific and Technical Information Center
Biotech/Chem Library
Old address and phone:
CM1-6A03
703-308-4292
New address and phone:
Remsen E01A61
571-272-2526

Swope, Sheridan

From: Swope, Sheridan
Sent: Wednesday, March 10, 2004 8:10 PM
To: Schreiber, David
Subject: RE: Proposal 09/966,880

David, Thanks for contacting me on this.
Let's do the following.

A.
Interference search sid 9; full-length and oligo.
Search and Interference Search sid 10; full-length and oligo.

B.
After I analyze the results:
If there are any oligo hits for Sid 9, align the hits with sid 11.
If there are any oligo hits for Sid 10, align the hits with sid 12-15.

Let me know how long you think A will take.

Thanks!

Note: SID 9 comprises sid 11
SID 10 comprises sid 12-15.

*An oligo search on SID 7 would
encompass an oligo search
of SID 11-15.*

-----Original Message-----

From: Schreiber, David
Sent: Wednesday, March 10, 2004 3:06 PM
To: Swope, Sheridan
Cc: O'Bryen, Barbara
Subject: Proposal 09/966,880

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QY 721 TATTTTGTATCATGATTATTAATGAAGTGTACTGTATCTGCTCTGATCTTGG 780
 DB 721 TATTTTGTATCATGATTATTAATGAAGTGTACTGTATCTGCTCTGATCTTGG 780
 QY 781 TAGCTATGAGCATGAGCTGGGCTTTTAAAGCAGCGCCCAAGAACTTAACTTAA 840
 DB 781 TAGCTATGAGCATGAGCTGGGCTTTTAAAGCAGCGCCCAAGAACTTAACTTAA 840
 QY 841 AGGAGAGCTGGCCCTCAATGGTTTAACTGTGACTGTGCTATGACAGCCCAACC 900
 DB 841 AGGAGAGCTGGCCCTCAATGGTTTAACTGTGACTGTGCTATGACAGCCCAACC 900
 QY 901 CATCTTCACTGATGCCAAATCAGAGCAAGCGCTTGGGTACTGTGGGGGTATGCT 960
 DB 901 CATCTTCACTGATGCCAAATCAGAGCAAGCGCTTGGGTACTGTGGGGGTATGCT 960
 QY 961 GTGAGGGAGAGAGCCCAAAAGGCAAGCTCAAAATTTGAAATGTGAAGGCGCAATGCACTGT 1020
 DB 961 GTGAGGGAGAGAGCCCAAAAGGCAAGCTCAAAATTTGAAATGTGAAGGCGCAATGCACTGT 1020
 QY 1021 CAACTGAGACAGAGAAACCATCTTAATGAAGTGAATTTTCTGGCCTGAGACTTGA 1080
 DB 1021 CAACTGAGACAGAGAAACCATCTTAATGAAGTGAATTTTCTGGCCTGAGACTTGA 1080
 QY 1081 GGGAGGCAAGAGACACTGTGACACACATATGAGAGGTAAGAGAGGAGCTTCTGCTG 1140
 DB 1081 GGGAGGCAAGAGACACTGTGACACACATATGAGAGGTAAGAGAGGAGCTTCTGCTG 1140
 QY 1141 GGTGATTCAGCTGAGCTTCTCTCAAGAGCAATCTGAGTAATGAGACTGTAGCTATGCC 1200
 DB 1141 GGTGATTCAGCTGAGCTTCTCTCAAGAGCAATCTGAGTAATGAGACTGTAGCTATGCC 1200
 QY 1201 TTTCTCTCATGTAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1260
 DB 1201 TTTCTCTCATGTAAGTGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1260
 QY 1261 TTGATCTGCT 1320
 DB 1261 TTGATCTGCT 1320
 QY 1321 TTGAGACTCTCTCTGATTTCCCTCTTTTCTCATGTGCAAAAGAGAGTGCATACATGT 1380
 DB 1321 TTGAGACTCTCTCTGATTTCCCTCTTTTCTCATGTGCAAAAGAGAGTGCATACATGT 1380
 QY 1381 ACTGATTCGCTGAGATTTGTAACATGATGTAAGTGAACATTAATTAATTAATTAATTA 1440
 DB 1381 ACTGATTCGCTGAGATTTGTAACATGATGTAAGTGAACATTAATTAATTAATTAATTA 1440
 QY 1441 TAGCAAACTCTTGAAGCTCAATCATGAAAAGGTAATAGCACTGTATCTTAAACAGG 1500
 DB 1441 TAGCAAACTCTTGAAGCTCAATCATGAAAAGGTAATAGCACTGTATCTTAAACAGG 1500
 QY 1501 TAGGCTAATTTTGTAAATTTTGTAAATTTTCAACAGTAATAACACTTGAAGACACA 1560
 DB 1501 TAGGCTAATTTTGTAAATTTTGTAAATTTTCAACAGTAATAACACTTGAAGACACA 1560
 QY 1561 CTCTTCTAGGAGAGCTTACTGAAATTAATTAAGTATAGTAAGTAAGTAAGTAAGTAAG 1620
 DB 1561 CTCTTCTAGGAGAGCTTACTGAAATTAATTAAGTATAGTAAGTAAGTAAGTAAGTAAG 1620
 QY 1621 AATGCGAAGACTTAAATTAATTTGCTTGAAGTCAATGATGTGCTATTAATTAAG 1680
 DB 1621 AATGCGAAGACTTAAATTAATTTGCTTGAAGTCAATGATGTGCTATTAATTAAG 1680
 QY 1681 AGAAGAAATTCATCAACAGATTAATTAAGTAAAGGCGCAATGTGTAAGGCTTAAG 1740
 DB 1681 AGAAGAAATTCATCAACAGATTAATTAAGTAAAGGCGCAATGTGTAAGGCTTAAG 1740
 QY 1741 GCACTTTTACTATTAATCTTCAATTTGTTCAAGCTAGCTTAATCTTACTCTTGA 1800
 DB 1741 GCACTTTTACTATTAATCTTCAATTTGTTCAAGCTAGCTTAATCTTACTCTTGA 1800
 QY 1801 GTGTGAATTTGGTAAAGTCTCATTAATGTCTTATGTGAGATTTTGTATGAGTATGT 1860

DB 1801 GTGTGAATTTGGTAAAGTCTCATTAATGTCTTATGTGAGATTTTGTATGAGTATGT 1860
 QY 1861 CATGAACTTAATCTATTCCTTACATTTATGATTAATGATATGATATGATATTAACCTTA 1920
 DB 1861 CATGAACTTAATCTATTCCTTACATTTATGATTAATGATATGATATGATATTAACCTTA 1920
 QY 1921 ATCTTATTAATCTTAACTCAATTTAACTCTTTTAAAGAACTTAACTTAACTTAAAGAA 1980
 DB 1921 ATCTTATTAATCTTAACTCAATTTAACTCTTTTAAAGAACTTAACTTAACTTAAAGAA 1980
 QY 1981 TTTTAAATTAATTAATTTTGTGAAGAGAGGCTTGAAGGCGGAGGCTGCTCT 2040
 DB 1981 TTTTAAATTAATTAATTTTGTGAAGAGAGGCTTGAAGGCGGAGGCTGCTCTCT 2040
 QY 2041 AAGTCTGGGCGCAAGGATCTCTGCTGAGGCTCTCTAAAGGCTGAATTAAGACAT 2100
 DB 2041 AAGTCTGGGCGCAAGGATCTCTGCTGAGGCTCTCTAAAGGCTGAATTAAGACAT 2100
 QY 2101 GAGCATCATCATCAATATACAGAAATTAATTAATGAGATTAATGATTTCTTCAAG 2160
 DB 2101 GAGCATCATCATCAATATATACAGAAATTAATTAATGAGATTAATGATTTCTTCAAG 2160
 QY 2161 AAAATTTTCTTGAAGTCAAGCAATGTCAAAATGTCTCTCACTTAACTGAGATTTTGA 2220
 DB 2161 AAAATTTTCTTGAAGTCAAGCAATGTCAAAATGTCTCTCACTTAACTGAGATTTTGA 2220
 QY 2221 AACAGTCTGAGTATAGTCTCTTGTGAAGGCTCAATGGAATTAATCTGTTCAAGTAA 2280
 DB 2221 AACAGTCTGAGTATAGTCTCTTGTGAAGGCTCAATGGAATTAATCTGTTCAAGTAA 2280
 QY 2281 ATGAAAGCAAGGTAATCAGAGTGAATTCAGAGAAACAGAGAAAGAGAGAGAAAG 2340
 DB 2281 ATGAAAGCAAGGTAATCAGAGTGAATTCAGAGAAACAGAGAAAGAGAGAGAAAG 2340
 QY 2341 ATGAAATTCACAGACAGAGAGAGAAATTAATTAATTAAGAGAGAGCAATCTGTAGA 2400
 DB 2341 ATGAAATTCACAGACAGAGAGAGAAATTAATTAATTAAGAGAGAGCAATCTGTAGA 2400
 QY 2401 GCTCATTAAGTATGAGCAAAATGACTGTGAGATTAATTTTAACTTGAATCTGCTGT 2460
 DB 2401 GCTCATTAAGTATGAGCAAAATGACTGTGAGATTAATTTTAACTTGAATCTGCTGT 2460
 QY 2461 TTGACAGGCTGGAGATGAGTATGAGGCTTCTGCTCAAGAGAGAGAGTGTCAAGAGAG 2520
 DB 2461 TTGACAGGCTGGAGATGAGTATGAGGCTTCTGCTCAAGAGAGAGAGTGTCAAGAGAG 2520
 QY 2521 TGTGAGCTGTGAGAGCTGAAACACTCCCTGCTTAAAGTCTCTCACTCAGAGAGAAAT 2580
 DB 2521 TGTGAGCTGTGAGAGCTGAAACACTCCCTGCTTAAAGTCTCTCACTCAGAGAGAAAT 2580
 QY 2581 GACGAGAAACAGGAGCTGAAACAGGCGCTTAAACAGAGAGAGAGATTAATGATCAACA 2640
 DB 2581 GACGAGAAACAGGAGCTGAAACAGGCGCTTAAACAGAGAGAGAGATTAATGATCAACA 2640
 QY 2641 AAGTTAACTACAGAGTCAAGATCAAGCAATTCATTCATCTGCTGCTGATTAAGTCAACA 2700
 DB 2641 AAGTTAACTACAGAGTCAAGATCAAGCAATTCATTCATCTGCTGCTGATTAAGTCAACA 2700
 QY 2701 GAAACAGTGTAGGCTTATGATTTTCAATGATGATGAGAGAGAGAGAGAGAGAGAGAG 2760
 DB 2701 GAAACAGTGTAGGCTTATGATTTTCAATGATGATGAGAGAGAGAGAGAGAGAGAGAG 2760
 QY 2761 CTTTATTAATGAGCAATCTCTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAA 2820
 DB 2761 CTTTATTAATGAGCAATCTCTTAACTTAACTTAACTTAACTTAACTTAACTTAACTTAA 2820
 QY 2821 TAAAGCTCTCTCTCTCTCAACACACACACACACACACACACACACACACACACACAC 2880
 DB 2821 TAAAGCTCTCTCTCTCTCAACACACACACACACACACACACACACACACACACACAC 2880
 QY 2881 CACAAAC 2940

Db 2881 CACAAACACACACCCCGCCAAACCAAGTGCATGTAAAAAGATGAGATTCCTGCTCCCTT 2940
Qy 2941 CTCATCTACAGAGCCAGAGAGGTAAGTAATATATAGAGGATTTATGTGTAAGAGATGA 3000
Db 2941 CTCATCTACAGAGCCAGAGAGGTAAGTAATATATAGAGGATTTATGTGTAAGAGATGA 3000
Qy 3001 TGCCTTAATCTGTTTACACTGGGCTCAAGAGAGAAATTTCTTTCTTCTGACTTATTA 3060
Db 3001 TGCCTTAATCTGTTTACACTGGGCTCAAGAGAGAAATTTCTTTCTTCTGACTTATTA 3060
Qy 3061 AGCACCCTAATATGTGTGAGCTTATATATACAAAGGGTATTAATGTAAATATATAT 3120
Db 3061 AGCACCCTAATATGTGTGAGCTTATATATACAAAGGGTATTAATGTAAATATATAT 3120
Qy 3121 AGTATATGTGTGTGTAT 3180
Db 3121 AGTATATGTGTGTGTAT 3180
Qy 3181 CTAAATTAAT 3240
Db 3181 CTAAATTAAT 3240
Qy 3241 AAAAGACAATCTCACCTGTTACCCAGGCTGAGTGCAGTGTGCATCATAGCTTTCTG 3300
Db 3241 AAAAGACAATCTCACCTGTTACCCAGGCTGAGTGCAGTGTGCATCATAGCTTTCTG 3300
Qy 3301 CAGCTTTGAACTCTGCGGCTCAAGCAATCTCTGCTTGGCTCCCAAGTGTGGAT 3360
Db 3301 CAGCTTTGAACTCTGCGGCTCAAGCAATCTCTGCTTGGCTCCCAAGTGTGGAT 3360
Qy 3361 AAGAGTCAGAGCACTGCATCTGCGCTAGAGATCCATTAAGTAAATATATATATTA 3420
Db 3361 AAGAGTCAGAGCACTGCATCTGCGCTAGAGATCCATTAAGTAAATATATATATTA 3420
Qy 3421 TTTTAAAT 3480
Db 3421 TTTTAAAT 3480
Qy 3481 TTTGCTGCTTAAAGTTTAAAGTCTTTCATTAAGCTTCAATGTAAGTGGAGAGACAT 3540
Db 3481 TTTGCTGCTTAAAGTTTAAAGTCTTTCATTAAGCTTCAATGTAAGTGGAGAGACAT 3540
Qy 3541 TAAAGTAAACAGACAGCCAGGCTGTGTGCTCAAGCTGTATATCCAGCACTCGGAG 3600
Db 3541 TAAAGTAAACAGACAGCCAGGCTGTGTGCTCAAGCTGTATATCCAGCACTCGGAG 3600
Qy 3601 GCTGAGGTGGGTGATTCGCTTGAAGCCCTGAGTTCAGACAGCTGAGCAATGGCA 3660
Db 3601 GCTGAGGTGGGTGATTCGCTTGAAGCCCTGAGTTCAGACAGCTGAGCAATGGCA 3660
Qy 3661 AACCTGTTTCTATTAACAAAATTAGCCGGGATGTGGATGTGCTGTCCAGCT 3720
Db 3661 AACCTGTTTCTATTAACAAAATTAGCCGGGATGTGGATGTGCTGTCCAGCT 3720
Qy 3721 ACTAGGAGGCTGAGGACAGAGATCTTTGAGAGCCAGAGGTCAGGCTGACAGAG 3780
Db 3721 ACTAGGAGGCTGAGGACAGAGATCTTTGAGAGCCAGAGGTCAGGCTGACAGAG 3780
Qy 3781 TGCCTTGGGCTGACATTCAGCTGAGGCTGAGGATCAAGACCAAGCTTCAAAAAATTA 3840
Db 3781 TGCCTTGGGCTGACATTCAGCTGAGGCTGAGGATCAAGACCAAGCTTCAAAAAATTA 3840
Qy 3841 GAAAGAAAATTTAAATTAATGAGAAACAATCAAAAGCTGTGTCTCTAATGAGCTAC 3900
Db 3841 GAAAGAAAATTTAAATTAATGAGAAACAATCAAAAGCTGTGTCTCTAATGAGCTAC 3900
Qy 3901 TTAGTAAAGCTGATATTTTGTATTTAACTTTTAAGTCAGGGCTGTCACTGACATAC 3960
Db 3901 TTAGTAAAGCTGATATTTTGTATTTAACTTTTAAGTCAGGGCTGTCACTGACATAC 3960
Qy 3961 ATTATTAAT 4020
Db 3961 ATTATTAAT 4020

Qy 4021 AGTACCTTATTCACAAAACCCCAAAGTAGACTATCCAAATATCCAAATCAAGTGA 4080
Db 4021 AGTACCTTATTCACAAAACCCCAAAGTAGACTATCCAAATATCCAAATCAAGTGA 4080
Qy 4081 CAATATAACAAATGTGCTATATCCATGCAATGAAATACACCTTGCAGTCAAAAGAA 4140
Db 4081 CAATATAACAAATGTGCTATATCCATGCAATGAAATACCACTTGCAGTCAAAAGAA 4140
Qy 4141 AAGTACTTGGGGATGAAATCCCAAAGTCATGAGCTTAATGAAAGGTCAAGACATGAAG 4200
Db 4141 AAGTACTTGGGGATGAAATCCCAAAGTCATGAGCTTAATGAAAGGTCAAGACATGAAG 4200
Qy 4201 AGGAGATTAATGTATGCTATGCAATGCAATTCAGAAATGAAAGTAACTTATAGTTACAGA 4260
Db 4201 AGGAGATTAATGTATGCTATGCAATGCAATTCAGAAATGAAAGTAACTTATAGTTACAGA 4260
Qy 4261 GCAATCAGGCGAGGAGTATGAGGCTCAACCTGTATATCCAGACCTTTGAGAGCCAGT 4320
Db 4261 GCAATCAGGCGAGGAGTATGAGGCTCAACCTGTATATCCAGACCTTTGAGAGCCAGT 4320
Qy 4321 GGGAAATGCTAGAACTCAGAGATTCAAGACCAAGCTGGGCAACACATGAAATCCAT 4380
Db 4321 GGGAAATGCTAGAACTCAGAGATTCAAGACCAAGCTGGGCAACACATGAAATCCAT 4380
Qy 4381 TCTCCACAAAATGGGAAAAAAGAAAGCAATCAATGTGTGTCTGTGGGAGGGGAG 4440
Db 4381 TCTCCACAAAATGGGAAAAAAGAAAGCAATCAATGTGTGTCTGTGGGAGGGGAG 4440
Qy 4441 GACTGCAAGAGGGAAGAAAGCTCTGTGGGAGTGAAGGCTGATTCAGGTTCTGTATCT 4500
Db 4441 GACTGCAAGAGGGAAGAAAGCTCTGTGGGAGTGAAGGCTGATTCAGGTTCTGTATCT 4500
Qy 4501 GACTGTGTAGACGTTTGGGCTTTTACATCCAAAATATGTAATATATATATATATAT 4560
Db 4501 GACTGTGTAGACGTTTGGGCTTTTACATCCAAAATATGTAATATATATATATATAT 4560
Qy 4561 AATGGGTGAGTTACTGTATGTAAATTAATTAATTAATTAATTAATTAATTAATTA 4620
Db 4561 AATGGGTGAGTTACTGTATGTAAATTAATTAATTAATTAATTAATTAATTAATTA 4620
Qy 4621 AAAAGTTCAATCTCTGCGCAGCAACGTTATTAATTAATTAATTAATTAATTAATTA 4680
Db 4621 AAAAGTTCAATCTCTGCGCAGCAACGTTATTAATTAATTAATTAATTAATTAATTA 4680
Qy 4681 AATTCCTGCACTTCTGCCCCGTAACATTAAGTGAAGCACTAGCTCCAAATGGATA 4740
Db 4681 AATTCCTGCACTTCTGCCCCGTAACATTAAGTGAAGCACTAGCTCCAAATGGATA 4740
Qy 4741 AATGCAATTCGTGAAAAAGACTAGGACAAATTCAGGATCACTTGTCTTCAATCA 4800
Db 4741 AATGCAATTCGTGAAAAAGACTAGGACAAATTCAGGATCACTTGTCTTCAATCA 4800
Qy 4801 CCAAGCTGTAAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 4860
Db 4801 CCAAGCTGTAAGCTTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 4860
Qy 4861 GGAACCTGGGTTACAGAGTATTTCCAAATGCAATCAATTAATTAATTAATTAATTA 4920
Db 4861 GGAACCTGGGTTACAGAGTATTTCCAAATGCAATCAATTAATTAATTAATTAATTA 4920
Qy 4921 CAAGACACTGTGTAGAGCCAGAAAAAAGAGAGAGAAATCAGTATATGTGGGA 4980
Db 4921 CAAGACACTGTGTAGAGCCAGAAAAAAGAGAGAGAAATCAGTATATGTGGGA 4980
Qy 4981 ACAACATAGCAAGATATTTAGATCAATTTGACTAGTTAAAAAGCAGAGATCAAAAT 5040
Db 4981 ACAACATAGCAAGATATTTAGATCAATTTGACTAGTTAAAAAGCAGAGATCAAAAT 5040
Qy 5041 CACACATGCAATAGATATATCCAAATCAATGTAATATATATATATATATATATATAT 5100
Db 5041 CACACATGCAATAGATATATCCAAATCAATGTAATATATATATATATATATATATAT 5100

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QY 5101 AATAAACAAGAACTTTTAAAGTCTGATTTAGACACTTAAGTCTAATTATTATTAT 5160
DB 5101 AATAAACAAGAACTTTTAAAGTCTGATTTAGACACTTAAGTCTAATTATTATTAT 5160
QY 5161 AGACACTATGATTTTGAATTTTAAATCTTTAATTTTAAATTTAGAGCTCTCTC 5220
DB 5161 AGACACTATGATTTTGAATTTTAAATCTTTAATTTTAAATTTAGAGCTCTCTC 5220
QY 5221 ATTTTCCATGATTTTCAAGTTTGAACAATGATTAATTAATTTTCTTTTCTTTTCTT 5280
DB 5221 ATTTTCCATGATTTTCAAGTTTGAACAATGATTAATTAATTTTCTTTTCTTTTCTT 5280
QY 5281 TTTTCTTTTCTTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTT 5340
DB 5281 TTTTCTTTTCTTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTT 5340
QY 5341 ATCATAGTCTACTGCAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5400
DB 5341 ATCATAGTCTACTGCAACTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5400
QY 5401 CGGGTAGATGGAGTTTACAGGGCCCAACCACTGCTGCTGCTGCTGCTGCTGCTGCTG 5460
DB 5401 CGGGTAGATGGAGTTTACAGGGCCCAACCACTGCTGCTGCTGCTGCTGCTGCTGCTG 5460
QY 5461 GAGATGGGGTTTCAACATGTTGCGCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5514
DB 5461 GAGATGGGGTTTCAACATGTTGCGCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 5514

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RESULT 2
US-09-966-880A-15/c
Sequence 15, Application US/09966880A
GENERAL INFORMATION:

```

; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-15

```

Query Match 3.2%; Score 178.6; DB 1; Length 2172;
Best Local Similarity 83.1%; Pred. No. 1.1;
Matches 202; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

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QY 5270 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 5329
DB 5270 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 5329
QY 5330 GGAATGGAGTATGATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGA 5389
DB 5330 GGAATGGAGTATGATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGA 5389
QY 5390 CCTAGGCTCCCGGGTAGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 5449
DB 5390 CCTAGGCTCCCGGGTAGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 5449
QY 5450 TATTTTGTAGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 5509
DB 5450 TATTTTGTAGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 5509

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DB 1334 CATTTGAGTACAGAGGGGTTTCCATGTTGGCCAGGCTGCTGCTCAAACTCCTGACCA 1275
QY 5510 CAG 5512
DB 1274 CAG 1272

```

RESULT 3
US-09-966-880A-10/c
Sequence 10, Application US/09966880A
GENERAL INFORMATION:

```

; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-10

```

Query Match 3.2%; Score 178.6; DB 1; Length 6564;
Best Local Similarity 83.1%; Pred. No. 1.8;
Matches 202; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

```

QY 5270 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 5329
DB 5270 TTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTTCTTTT 5329
QY 5330 GGAATGGAGTATGATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGA 5389
DB 5330 GGAATGGAGTATGATTTTGAATTTTGAATTTTGAATTTTGAATTTTGAATTTTGA 5389
QY 5390 CCTAGGCTCCCGGGTAGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 5449
DB 5390 CCTAGGCTCCCGGGTAGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 5449
QY 5450 TATTTTGTAGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 5509
DB 5450 TATTTTGTAGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTGATTTG 5509
QY 5510 CAG 5512
DB 5014 CAG 5012

```

RESULT 4
US-09-966-880A-15
Sequence 15, Application US/09966880A
GENERAL INFORMATION:

```

; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999

```

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; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
US-03-966-860A-15
```

Query Match	3.2%;	Score 174.2;	DB 1;	Length 2172;
Best Local Similarity	74.8%;	Pred. No. 1.3;		
Matches 255;	Conservative 0;	Mismatches 78;	Indels 8;	Gaps 3

QY	3542	AAAGGAAACAGACAGCCAGGCTGTGGATCCAGCCCTGTATCCCACTCTGGAGG	3601
Db	11394	AAAGAAAGAGAGAGGCGCGGCGTGTGCTCAACCCCTGTATCCCACTTTGGAGG	12535
QY	3602	CTGAGTGGGTGATCGCTTGAGCCCTGAGTTCAAGACAAGCCCTGAACAAATGGCAAA	3661
Db	1254	CGAGCCGGCGGAGATCACTGTGTGTCAGAGATTGAGACAGCCTGGCCAACTGGCAA	13133
QY	3662	ACCCGTGTTCT-----ATAACAAAATTAAGCCGGGCAATGTGGCATGTGCTGTGCTC	3715
Db	1314	ACCCCGTGTGATCAAAATGCAAAAATTAAGCAGCGTGTGAGAGGCACTGTAAATCC	13737
QY	3716	CAGCTACTAGGG-GGCTGAGGCGAGGAAATCTTTGAGCCCAAGAGGTCAAGCTGCACCT	3774
Db	1374	CAGCTACTGGGAGGCTGAGGCGAGGAGAAATCGCTTGAACCAAGAGGTGAGGTTGCAGT	14333
QY	3775	GAGCAGTGTCTGCCCACTGCACCTCAAGCTGGGGTGAAGAG-CAAGACCTTGGCTCAA	3833
Db	1434	AAGCTGAGATCGTGCCGTTGCACCTCAAGCTGGGGCAAGAGGCAAGCACTGTCTCAGA	14833
QY	3834	AAATATGAAGAAATTTAAATTAATGAAGAAACAATCA	3874
Db	1494	AAAAAAAAAAAAAAAAAGAGAGAGAGGAGAAAGAGACATA	1534

RESULT 5
US-09-966-880A-10
; Sequence 10, Application US/09966880A

Query Match	3.2%;	Score 174.2;	DB 1;	Length 6564;
Best Local Similarity	74.8%;	Pred. No. 2;		
Matches 255; Conservative	0;	Mismatches 78;	Indels 8;	Gaps 3

QY 3542 AAAGTGAACAGACAGCCAGAGTGTGGTGCACGCGCTGTAATCCAGACACTGGAGG 3601

Db 4934 AAGGAAAGAGAGAGCGCCCGGCGTGTGCTCACGCTGTAAATCCAGACACTTGGAGG 4993

QY	3602	CTGAGGTGGGGGATGATCCCTTTAGCGCCCTGGAGATTCAGAGCCGACGCTGAGCAATGCGCAA	3661
Db	4994	CCGAGCCGGGGGAGATCACTGTGGTCAAGAGATTGAGACCAAGCCTTGCGCAACATGCGCAA	5053
QY	3662	ACCGTGTCTCT-----ATTAACAATAATTAAGCCGGGCGATGTGGCATGTGCTGTGCTGC	3715
Db	5054	ACCCGCTGTGATCAATAATGCAAAATAATGACCGAGCGTGTGATCAGGCAACCTGTAAATCC	5113
QY	3716	CAGCTTACTAGGG-AGCTGAGGCAAGAGATTTTGGAGCCGAGAGAGTCAAGGCTGCACCT	3774
Db	5114	CAGCTTACTGGAGAGCTGTGAGCAGAGAGATGCTTGAACCGAGAGGTGAGGTTGCAGT	5173
QY	3775	GAGCAGTGTCTTGCGCCACTGCATCTCAAGCCTGGGTGACAGGA-CCAGA CTTTGCTTCAA	3833
Db	5174	AAGCTGAGATGCTCCGTTGCACTCCAGCGCTGGCGCAACAGAGCAAGACTCTGTCTCAGA	5233
QY	3834	AAATTAAGAGAAATAATTAAATTAATGGAACAACATCA	3874
Db	5234	AAAAAAAAAAAAAAAAAGAGAGAGAGAGAGAAAGAGACATA	5274

RESULT 6
US-09-966-880A-9/c
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:

Query Match	2.0%	Score 109.3;	DB 1;	Length 5514;
Best Local Similarity	69.0%;	Pred. No. 4.4;		
Matches 176;	Conservative 0;	Mismatches 72;	Indels 7;	Gaps 2;

Oy	362L	TGACCCTGGAGTTCAAGACCAAGCCTAAGCAAATGGCAAAACCTGTTTCTATA-----	367S
Db	551I	TGAAGTCAGAGATTGTAGACCAAGCTGCGCCAACATGGTAAGCCCATCTCTACTTAAAAA	5452E
Oy	3676	-ACAAAATTAGCGGGGCATGCTGACATGTGCGCTGTGCTCCAGCTA- GGCTGA-	3733K
Db	5451	TACAAACAATTAGCCGAATGTGTGTGTGGCGCCTGTATCCATCTAACCCGGAGGCTGA	5392E
Oy	3734	GGCAGAGAAATCTTTGGAGCCACAGAGAGTCAAGGCTGCACTGAGACAGTGCTGGGCCACT	3793K
Db	5391	GCGCACAGCTTGTCTTAACCCACAGAGAGTGAAGGTTGAGAGCTATGRCATANGCAATT	5332E

QY 3794 GCACTCCAGCTGGTGACGACACCACTTCTCCTCAAAAATAGAGAAAATTAA 3853
 DB 5331 CCATCCAGATGGAGGACCAAACTCATCTCAAAAAAAAAAAAAAAAAAAAA 5272
 QY 3854 AATAAATGGAACA 3868
 DB 5271 AAGAAAGAGTAATA 5257

RESULT 7

US-09-966-880A-11
 ; Sequence 11, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 11
 ; LENGTH: 87
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-966-880A-11

Query Match 1.6%; Score 87; DB 1; Length 87;
 Best Local Similarity 100.0%; Pred. No. 4;
 Matches 87; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1032 AGAAGAACATCATTAATTAGAGAGATTTTCTGCGCTGAGACTTGACGGAGGCAAA 1091
 DB 1 AGAAGAACATCATTAATTAGAGAGATTTTCTGCGCTGAGACTTGACGGAGGCAAA 60
 QY 1092 AGACACTCTGACACCACTATGACAG 1118
 DB 61 AGACACTCTGACACCACTATGACAG 87

RESULT 8

US-09-966-880A-12/C
 ; Sequence 12, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 12
 ; LENGTH: 148
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-966-880A-12

Query Match 0.3%; Score 18.3; DB 1; Length 148;
 Best Local Similarity 64.6%; Pred. No. 55;
 Matches 42; Conservative 0; Mismatches 22; Indels 1; Gaps 1;

QY 2900 AACCAAGTGATGTAAAGATGTAGATTCTCTGCTTTTCATCTACACAGCCAGG 2959
 DB 134 AACCAAGTGATGTAAAGATGTAGATTCTCTGCTTTTCATCTACACAGCCAGG 76
 QY 2960 AGGGT 2964
 DB 75 TAGGT 71

RESULT 9

US-09-966-880A-13/C
 ; Sequence 13, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 13
 ; LENGTH: 271
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-09-966-880A-13

Query Match 0.3%; Score 17.6; DB 1; Length 271;
 Best Local Similarity 52.8%; Pred. No. 60;
 Matches 38; Conservative 0; Mismatches 34; Indels 0; Gaps 0;

QY 937 GGGTACTGTGTGGGGGTGATGCTGTCAAGGAGAGACCCCAAGGCAAGCTCAATT 996
 DB 102 GGGGTCTCCAGAGGTGAACCAAGTGACGCGGTAGCAGCGGCTTAGTCCAGTC 43
 QY 997 GAATGTGAAGG 1008
 DB 42 CGAGTGTAGCG 31

RESULT 10

US-09-966-880A-14
 ; Sequence 14, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0


```
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14
```

```
Query Match      0.3%; Score 16.2; DB 1; Length 116;
Best Local Similarity 52.2%; Pred. No. 53;
Matches 36; Conservative 0; Mismatches 33; Indels 0; Gaps 0;
```

```
QY      4437 GAAGAGCTCAAGAGGAGAGAGCTCTGCTGGGGTGAAGGGGTGGATTCAGTTCGTGA 4436
DB      30 GAAAAACACGAAAGAACTTTCAGACCTGGGAAAGGCTGCATGAAATTCAGTTCGTCTC 89
```

```
QY      4497 TCCTGACTG 4505
DB      90 TCCAGACAG 98
```

```
RESULT 11
```

```
US-09-966-880A-13
; Sequence 13, Application US/09966880A
```

```
; GENERAL INFORMATION:
```

```
; APPLICANT: Honjo, Tasuku
```

```
; APPLICANT: Muramatsu, Masamichi
```

```
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
```

```
; FILE REFERENCE: 06501-088001
```

```
; CURRENT APPLICATION NUMBER: US/09/966,880A
```

```
; PRIOR FILING DATE: 2001-09-28
```

```
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
```

```
; PRIOR FILING DATE: 2000-03-28
```

```
; PRIOR APPLICATION NUMBER: JP 11-371382
```

```
; PRIOR FILING DATE: 1999-12-27
```

```
; PRIOR APPLICATION NUMBER: JP 11-178999
```

```
; PRIOR FILING DATE: 1999-06-24
```

```
; PRIOR APPLICATION NUMBER: JP 11-87192
```

```
; PRIOR FILING DATE: 1999-03-29
```

```
; NUMBER OF SEQ ID NOS: 36
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 13
```

```
; LENGTH: 271
```

```
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
```

```
US-09-966-880A-13
```

```
Query Match      0.3%; Score 16; DB 1; Length 271;
Best Local Similarity 55.4%; Pred. No. 62;
Matches 31; Conservative 0; Mismatches 25; Indels 0; Gaps 0;
```

```
QY      2023 CAGCCGAGCTGTCTCTTAAGTCCGCGCCCAAGCATCTCTGCTGGGCTCTCT 2078
DB      36 CATCTGGAGCTGGAGCACTTAAGCCCTGCGCGCTGCTACCGCTCACTGGTTCACCT 91
```

```
RESULT 12
```

```
US-09-966-880A-12
```

```
; Sequence 12, Application US/09966880A
```

```
; GENERAL INFORMATION:
```

```
; APPLICANT: Honjo, Tasuku
```

```
; APPLICANT: Muramatsu, Masamichi
```

```
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
```

```
; FILE REFERENCE: 06501-088001
```

```
; CURRENT APPLICATION NUMBER: US/09/966,880A
```

```
; PRIOR FILING DATE: 2001-09-28
```

```
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
```

```
; PRIOR FILING DATE: 2000-03-28
```

```
; PRIOR APPLICATION NUMBER: JP 11-371382
```

```
; PRIOR FILING DATE: 1999-12-27
```

```
; PRIOR APPLICATION NUMBER: JP 11-178999
```

```
; PRIOR FILING DATE: 1999-06-24
```

```
; PRIOR APPLICATION NUMBER: JP 11-87192
```

```
; PRIOR FILING DATE: 1999-03-29
```

```
; NUMBER OF SEQ ID NOS: 36
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12
```

```
Query Match      0.3%; Score 15.4; DB 1; Length 148;
Best Local Similarity 76.0%; Pred. No. 59;
Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;
```

```
QY      4349 AGACCACTTGGGCAACACAGTGA 4373
DB      69 AGACCTACCTGTGCTACGTAGTGA 93
```

```
RESULT 13
```

```
US-09-966-880A-14/c
```

```
; Sequence 14, Application US/09966880A
```

```
; GENERAL INFORMATION:
```

```
; APPLICANT: Honjo, Tasuku
```

```
; APPLICANT: Muramatsu, Masamichi
```

```
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
```

```
; FILE REFERENCE: 06501-088001
```

```
; CURRENT APPLICATION NUMBER: US/09/966,880A
```

```
; PRIOR FILING DATE: 2001-09-28
```

```
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
```

```
; PRIOR FILING DATE: 2000-03-28
```

```
; PRIOR APPLICATION NUMBER: JP 11-371382
```

```
; PRIOR FILING DATE: 1999-12-27
```

```
; PRIOR APPLICATION NUMBER: JP 11-178999
```

```
; PRIOR FILING DATE: 1999-06-24
```

```
; PRIOR APPLICATION NUMBER: JP 11-87192
```

```
; PRIOR FILING DATE: 1999-03-29
```

```
; NUMBER OF SEQ ID NOS: 36
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 14
```

```
; LENGTH: 116
```

```
; TYPE: DNA
```

```
; ORGANISM: Homo sapiens
```

```
US-09-966-880A-14
```

```
Query Match      0.3%; Score 14.8; DB 1; Length 116;
Best Local Similarity 59.5%; Pred. No. 55;
Matches 25; Conservative 0; Mismatches 17; Indels 0; Gaps 0;
```

```
QY      662 AAGCTATTAAATGCTCTTAAGTATTTACATTAATATTAC 703
DB      57 AGCTTTGAAGTCTTTGCTGTTTCTACAAAGTATTCC 16
```

```
RESULT 14
```

```
US-09-966-880A-11/c
```

```
; Sequence 11, Application US/09966880A
```

```
; GENERAL INFORMATION:
```

```
; APPLICANT: Honjo, Tasuku
```

```
; APPLICANT: Muramatsu, Masamichi
```

```
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
```

```
; FILE REFERENCE: 06501-088001
```

```
; CURRENT APPLICATION NUMBER: US/09/966,880A
```

```
; PRIOR FILING DATE: 2001-09-28
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; PRIOR APPLICATION NUMBER: PCT/JP00/01918
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; PRIOR FILING DATE: 2000-03-28
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; PRIOR APPLICATION NUMBER: JP 11-371382
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; PRIOR FILING DATE: 1999-12-27
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; PRIOR APPLICATION NUMBER: JP 11-178999
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; PRIOR FILING DATE: 1999-06-24
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```
; PRIOR APPLICATION NUMBER: JP 11-87192
```

```
; PRIOR FILING DATE: 1999-03-29
```

```
; NUMBER OF SEQ ID NOS: 36
```

```
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 11
```

```
; LENGTH: 87
```


Db 541 TTCACGCTGCTAGGCTGCTTACTGAGGTGGCAAAAGTCGGAGAGAGTCGCACTTTAGGA 600
 Qy 601 CAGGGGGGAGTTGAGGAATATGTTTGTATCATTTTGTAGTTGAGTCAAGTTGGAC 660
 Db 601 CAGGGGGGAGTTGAGGAATATGTTTGTATCATTTTGTAGTTGAGTCAAGTTGGAC 660
 Qy 661 TTAGTAAAGACTGAGGGGAATCTGATATATACATATATGGAAGTGAAGCAAGTTTA 720
 Db 661 TTAGTAAAGACTGAGGGGAATCTGATATATATGGAAGTGAAGCAAGTTTA 720
 Qy 721 TTTTATTTTTTGTGCTTTCTTTCTTTGTTGAAGAACAAATTTAATTGTAAATCCAAATC 780
 Db 721 TTTTATTTTTTGTGCTTTCTTTCTTTGTTGAAGAACAAATTTAATTGTAAATCCAAATC 780
 Qy 781 AGCATCTGAAGACGTGGCAGAGAGTGAATCTGTTGGGTTAAGGTTTGGGTCCTTG 840
 Db 781 AGCATCTGAAGACGTGGCAGAGAGTGAATCTGTTGGGTTAAGGTTTGGGTCCTTG 840
 Qy 841 ATGATATCTCTCAATGGCTTAAATATTAAGCAGGAAGAGATTTATGATGATTTCCA 900
 Db 841 ATGATATCTCTCAATGGCTTAAATATTAAGCAGGAAGAGATTTATGATGATTTCCA 900
 Qy 901 GGCTCAGCAGGCTCAGAGAGGCTCAGGAGCAGCAGAGAGAGTCAAGAGCATCTTCTT 960
 Db 901 GGCTCAGCAGGCTCAGAGAGGCTCAGGAGCAGCAGAGAGAGTCAAGAGCATCTTCTT 960
 Qy 961 GGTTAGGCCCAAGTATGACTTCTTAAAGCTGAAGGAATTCAGAGTGCACAGATT 1020
 Db 961 GGTTAGGCCCAAGTATGACTTCTTAAAGCTGAAGGAATTCAGAGTGCACAGATT 1020
 Qy 1021 AATACTGATCTTCTGCAATTTTCTCTCTCTCTCAACCCAGAGCTTTATGATGATCCG 1080
 Db 1021 AATACTGATCTTCTGCAATTTTCTCTCTCTCTCAACCCAGAGCTTTATGATGATCCG 1080
 Qy 1081 AGAAGTTTCTTTACCAATTCAAAATGTCCGCTGGCTAAGGGTCGGCTGAGACCTAC 1140
 Db 1081 AGAAGTTTCTTTACCAATTCAAAATGTCCGCTGGCTAAGGGTCGGCTGAGACCTAC 1140
 Qy 1141 CTGTGCTACGTAGTGAAGAGGCTGACAGTGTACATCTTTTCACTGCACTTTGAT 1200
 Db 1141 CTGTGCTACGTAGTGAAGAGGCTGACAGTGTACATCTTTTCACTGCACTTTGAT 1200
 Qy 1201 CTTCGCAATAGGTATCATTAATGATGAGCTTTGACAGCACTTTATATGTGATGAG 1260
 Db 1201 CTTCGCAATAGGTATCATTAATGATGAGCTTTGACAGCACTTTATATGTGATGAG 1260
 Qy 1261 TGCTTTAGAGCACTGCTGATATGATATCTTCATCTCTTTTGGATTTGTGCTCT 1320
 Db 1261 TGCTTTAGAGCACTGCTGATATGATATCTTCATCTCTTTTGGATTTGTGCTCT 1320
 Qy 1321 ATCAATTCCTCAATCTTTTATTTTATTTTCTTTTTCATGTCATGCACTTATAGA 1380
 Db 1321 ATCAATTCCTCAATCTTTTATTTTATTTTCTTTTTCATGTCATGCACTTATAGA 1380
 Qy 1381 CATGCCCCAATAATGATTTAATCTCTCCAGATATGCTGGGCACTTAAATACCACT 1440
 Db 1381 CATGCCCCAATAATGATTTAATCTCTCCAGATATGCTGGGCACTTAAATACCACT 1440
 Qy 1441 CCTTCCTCAGTGCAGAACACACAGCTGCCAACTGTTTACAGCTTTCTCTGACATCT 1500
 Db 1441 CCTTCCTCAGTGCAGAACACACAGCTGCCAACTGTTTACAGCTTTCTCTGACATCT 1500
 Qy 1501 GAATTCCTTTGAGATTAATTAAGCTAAAGATTTTATATGAGGAATATTAACGCT 1560
 Db 1501 GAATTCCTTTGAGATTAATTAAGCTAAAGATTTTATATGAGGAATATTAACGCT 1560
 Qy 1561 TGTCACACAAATTTTAAATGTAAGAAAACAAATTTGCTTAAAGCACTTTTGAATTT 1620
 Db 1561 TGTCACACAAATTTTAAATGTAAGAAAACAAATTTGCTTAAAGCACTTTTGAATTT 1620
 Qy 1621 AAGGAAGAAATTTGGGAAAAATTAACGCTGTTCAATCTGTTTCCAAATGATTTCC 1680
 Db 1621 AAGGAAGAAATTTGGGAAAAATTAACGCTGTTCAATCTGTTTCCAAATGATTTCC 1680

Qy 1681 TTTTCCCTCTACTCATAGGTCGTAGGCACTGATATCATTTCAACATGATGATCCCA 1740
 Db 1681 TTTTCCCTCTACTCATAGGTCGTAGGCACTGATATCATTTCAACATGATGATCCCA 1740
 Qy 1741 GAAACTCAGAGAGGCTCGCTGATGATTAATTAATGATCTTTCCGCTACCCGAGAG 1800
 Db 1741 GAAACTCAGAGAGGCTCGCTGATGATTAATTAATGATCTTTCCGCTACCCGAGAG 1800
 Qy 1801 AATTACATTTCCAGAGACTTCTTACCAAAAATCCAGATGAGTTTACATTAATCTTCTG 1860
 Db 1801 AATTACATTTCCAGAGACTTCTTACCAAAAATCCAGATGAGTTTACATTAATCTTCTG 1860
 Qy 1861 CATGGTATCTCTCTCTCTCTTAAACAGCTGTGACCTGAGGCTTGGTGAATCTAGGA 1920
 Db 1861 CATGGTATCTCTCTCTCTCTTAAACAGCTGTGACCTGAGGCTTGGTGAATCTAGGA 1920
 Qy 1921 AGCATCCGTGGGTTGAAGATCATGCTGAGCTCGTTGTTGATGATTAATTAACATG 1980
 Db 1921 AGCATCCGTGGGTTGAAGATCATGCTGAGCTCGTTGTTGATGATTAATTAACATG 1980
 Qy 1981 AATTTCTTGCTTACATTTGATTAATGAATACATCCCAATCTCTTCTATATGAGTACAT 2040
 Db 1981 AATTTCTTGCTTACATTTGATTAATGAATACATCCCAATCTCTTCTATATGAGTACAT 2040
 Qy 2041 GACACATTTCTATTTCAGAGGCTTTGATTTATCAAGCATTTTCACTTACTTCTCATG 2100
 Db 2041 GACACATTTCTATTTCAGAGGCTTTGATTTATCAAGCATTTTCACTTACTTCTCATG 2100
 Qy 2101 AGTGCCTATTAATCTCTCTTCAATAATCCCAATGCTGCTTTACCAAAATCTTATCCCT 2160
 Db 2101 AGTGCCTATTAATCTCTCTTCAATAATCCCAATGCTGCTTTACCAAAATCTTATCCCT 2160
 Qy 2161 TTTCAATCTCTCCCAATGATGCTCTCAATACTGCTGCTCCACATGATGATCAGGTA 2220
 Db 2161 TTTCAATCTCTCCCAATGATGCTCTCAATACTGCTGCTCCACATGATGATCAGGTA 2220
 Qy 2221 TATTTCAAGATGATCATCAACAGGACTTTAGCATTTTCTTCTCAAAAGGTGCA 2280
 Db 2221 TATTTCAAGATGATCATCAACAGGACTTTAGCATTTTCTTCTCAAAAGGTGCA 2280
 Qy 2281 AAGCACTTCTCATTAACAATAATTAATCTTGGTGAAGTATGATGATGATGATGAT 2340
 Db 2281 AAGCACTTCTCATTAACAATAATTAATCTTGGTGAAGTATGATGATGATGATGAT 2340
 Qy 2341 CAATCAGGCACTTGTCTCTCTCAATTCACAAAACCAATGACCTTCACTGCTG 2400
 Db 2341 CAATCAGGCACTTGTCTCTCTCAATTCACAAAACCAATGACCTTCACTGCTG 2400
 Qy 2401 AGGATAGTGTGCTGCCAAGGTTCAAGCTCTACCTAATGATGATGATGATGATGATG 2460
 Db 2401 AGGATAGTGTGCTGCCAAGGTTCAAGCTCTACCTAATGATGATGATGATGATGATG 2460
 Qy 2461 TTAGCTCTCTGTACACAAGACAAATAGCTCAAGCACTTCCCAAGATCATTTGAGAG 2520
 Db 2461 TTAGCTCTCTGTACACAAGACAAATAGCTCAAGCACTTCCCAAGATCATTTGAGAG 2520
 Qy 2521 ACAATGACTAAGGCTTACAGAGACCCGCAATTAAGTCAAGTATTTTAAAGTGTCTCT 2580
 Db 2521 ACAATGACTAAGGCTTACAGAGACCCGCAATTAAGTCAAGTATTTTAAAGTGTCTCT 2580
 Qy 2581 TGCTCTCCAGAAACGCTGCTGCAAGTGAATGCTCTCTCTGCTTACATCTGAGAG 2640
 Db 2581 TGCTCTCCAGAAACGCTGCTGCAAGTGAATGCTCTCTCTCTGCTTACATCTGAGAG 2640
 Qy 2641 ACCTAGACCTGAGCGCTCTACCGGCTCACTGCTGATCACTCTGAGAGCCCTGCTAG 2700
 Db 2641 ACCTAGACCTGAGCGCTCTACCGGCTCACTGCTGATCACTCTGAGAGCCCTGCTAG 2700
 Qy 2701 ACTGTGCCGACATGTGCGGCACTTTCTGAGAGGAACCCCAACTCAGTCTGAGAGATCT 2760
 Db 2701 ACTGTGCCGACATGTGCGGCACTTTCTGAGAGGAACCCCAACTCAGTCTGAGAGATCT 2760

QY 2761 TGAACGCGCGCTCTACTCTGTGAGGACCGGAGGCTGAGCCGAGGGGCTGCGGCGGC 2820
DB 2761 TGAACGCGCGCTCTACTCTGTGAGGACCGGAGGCTGAGCCGAGGGGCTGCGGCGGC 2820
QY 2821 TGCACCGCGCGCGGGGTGCAAAATGACCATGACCTTCAAAAGTGCAGAAAGGGCTTCG 2880
DB 2821 TGCACCGCGCGCGGGGTGCAAAATGACCATGACCTTCAAAAGTGCAGAAAGGGCTTCG 2880
QY 2881 CGGAGCGGAGTGACAGACCGCGCATTCGGGATTCGAGTGCGGAAATGAATGATGATG 2940
DB 2881 CGGAGCGGAGTGACAGACCGCGCATTCGGGATTCGAGTGCGGAAATGAATGATGATG 2940
QY 2941 GGAAGCTCGAGGGGAGAAAGTGGGGCGGGATTCGTGTTCACTCTGAGGCCAAATTA 3000
DB 2941 GGAAGCTCGAGGGGAGAAAGTGGGGCGGGATTCGTGTTCACTCTGAGGCCAAATTA 3000
QY 3001 GATTAGAGCAGAGAAAGAGTGAATGCTCAGAGCAAGGCCCGAGGAAATGAGAAA 3060
DB 3001 GATTAGAGCAGAGAAAGAGTGAATGCTCAGAGCAAGGCCCGAGGAAATGAGAAA 3060
QY 3061 TGGGCGCAGGGGTGCTCTTCCCTCGATTGGAACCTGAACCTGCTCTACCCCA 3120
DB 3061 TGGGCGCAGGGGTGCTCTTCCCTCGATTGGAACCTGAACCTGCTCTACCCCA 3120
QY 3121 TCCCGCGCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTT 3180
DB 3121 TCCCGCGCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTT 3180
QY 3181 TGTAGAAAACCAAGAAAGACTTCAAAAGCTGGGAAAGGCTGCAATGAATAATGCTG 3240
DB 3181 TGTAGAAAACCAAGAAAGACTTCAAAAGCTGGGAAAGGCTGCAATGAATAATGCTG 3240
QY 3241 TCTCTCAGACAGCTTCGCGGATCCTTTTGTGAAAGGCTTCCTGCTTTTAAATTT 3300
DB 3241 TCTCTCAGACAGCTTCGCGGATCCTTTTGTGAAAGGCTTCCTGCTTTTAAATTT 3300
QY 3301 CTTCCTTCTCTACAGTCTTTTGTGAGTTTCGTAAATTCCTAAATTTCTTATGTTG 3360
DB 3301 CTTCCTTCTCTACAGTCTTTTGTGAGTTTCGTAAATTCCTAAATTTCTTATGTTG 3360
QY 3361 AATCACTCTGATTTTCATCTGATGAAACTTTAATTTCTCTCCATCAGCTTTTCT 3420
DB 3361 AATCACTCTGATTTTCATCTGATGAAACTTTAATTTCTCTCCATCAGCTTTTCT 3420
QY 3421 CTGCTGTTTCAACATTCAGAGCCCTGCTAAGTTCCTTTCCCTCTCTCTCTCTCT 3480
DB 3421 CTGCTGTTTCAACATTCAGAGCCCTGCTAAGTTCCTTTCCCTCTCTCTCTCTCT 3480
QY 3481 TTGTGTTTCAACATTTAAATTTCTGCTCTCCGAGGGTTCGTTCTCTCTCTGTA 3540
DB 3481 TTGTGTTTCAACATTTAAATTTCTGCTCTCCGAGGGTTCGTTCTCTCTCTGTA 3540
QY 3541 GAATCTTCTCTCTCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTT 3600
DB 3541 GAATCTTCTCTCTCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTTTCCTTTT 3600
QY 3601 CCAAAAAAATCTTTTCCCAATTTACTTCTTCCAACTGTTACAAAGCCATCCACTCA 3660
DB 3601 CCAAAAAAATCTTTTCCCAATTTACTTCTTCCAACTGTTACAAAGCCATCCACTCA 3660
QY 3661 TTGAAAGACTCTCGGCGCCAGCGAGCCCGCAACTGTTTGAAGCATTCATCAATTT 3720
DB 3661 TTGAAAGACTCTCGGCGCCAGCGAGCCCGCAACTGTTTGAAGCATTCATCAATTT 3720
QY 3721 GCTTCTCTCTTCTCTACAGCCCTGTATGAGTTGATGACTTACGAGACGATTTCTGA 3780
DB 3721 GCTTCTCTCTTCTCTACAGCCCTGTATGAGTTGATGACTTACGAGACGATTTCTGA 3780
QY 3781 CTTTGGACCTTTGATGACAACTTCAGAGATGTCACACAGATGAATAATCTCTGCTGA 3840
DB 3781 CTTTGGACCTTTGATGACAACTTCAGAGATGTCACACAGATGAATAATCTCTGCTGA 3840
QY 3841 GACAGTGATAAAAAGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3900

DB 3841 GACAGTGATAAAAAGAGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3900
QY 3901 TCTTAGAGTTTACAGAAAAATTTATATATAGACTCTTTTAAAAAGATCTATGCTTGA 3960
DB 3901 TCTTAGAGTTTACAGAAAAATTTATATATAGACTCTTTTAAAAAGATCTATGCTTGA 3960
QY 3961 AATAGAAAGAAACAGAGTCTGGCCAGGAGGTGCTGAATTTGCTGAGTTTGAATG 4020
DB 3961 AATAGAAAGAAACAGAGTCTGGCCAGGAGGTGCTGAATTTGCTGAGTTTGAATG 4020
QY 4021 AACATGTCCTCTACTGGGAATTAAGAACTGAGAGACCTGGAGAGATCTTAAGTGTCA 4080
DB 4021 AACATGTCCTCTACTGGGAATTAAGAACTGAGAGACCTGGAGAGATCTTAAGTGTCA 4080
QY 4081 ACGTTTTCATAGACTTTTGTAGATGAGACAGAGAGTATCTTAAAAAGCATGGT 4140
DB 4081 ACGTTTTCATAGACTTTTGTAGATGAGACAGAGAGTATCTTAAAAAGCATGGT 4140
QY 4141 GAGAGATCAAATGTTTATATCAATCTTATATTTGATTCATTTGAGTTAAACG 4200
DB 4141 GAGAGATCAAATGTTTATATCAATCTTATATTTGATTCATTTGAGTTAAACG 4200
QY 4201 TGTGTTAGATGATGATTTTCTATCTTTCCCTGAGAGTTTACTTCAAGTACACA 4260
DB 4201 TGTGTTAGATGATGATTTTCTATCTTTCCCTGAGAGTTTACTTCAAGTACACA 4260
QY 4261 ACTCTTCATCAGGCACTGATCTATAGAGACCTCTATAGAGATCTGGGTATGTA 4320
DB 4261 ACTCTTCATCAGGCACTGATCTATAGAGACCTCTATAGAGATCTGGGTATGTA 4320
QY 4321 CCCCCAACCTCTCCAAAGCATTATATCAATATGCTGATGTTTATATACGA 4380
DB 4321 CCCCCAACCTCTCCAAAGCATTATATCAATATGCTGATGTTTATATACGA 4380
QY 4381 GAAGATGTTTATGTTTGTACAAAAGATTTGTAATGGGTGGGAGTGAAGATGAG 4440
DB 4381 GAAGATGTTTATGTTTGTACAAAAGATTTGTAATGGGTGGGAGTGAAGATGAG 4440
QY 4441 CCATGATGTCACCTTCAAGCTACTTATTAAGATCTTAAATGGGAGAGAGACTG 4500
DB 4441 CCATGATGTCACCTTCAAGCTACTTATTAAGATCTTAAATGGGAGAGAGACTG 4500
QY 4501 TGAACAAGACCCCTAATTAATGAGTGTATGTAAGTCAATCTTCGAAAGCAA 4560
DB 4501 TGAACAAGACCCCTAATTAATGAGTGTATGTAAGTCAATCTTCGAAAGCAA 4560
QY 4561 ACTCTTTAAGAGTCCCTAATTTAGAAAACCCCAAACTTCAATCAATATTAAG 4620
DB 4561 ACTCTTTAAGAGTCCCTAATTTAGAAAACCCCAAACTTCAATCAATATTAAG 4620
QY 4621 AAACATTTGAAGAGTGTGATGTTGGGAGAGAAATCTATGGCTCTCGTG 4680
DB 4621 AAACATTTGAAGAGTGTGATGTTGGGAGAGAAATCTATGGCTCTCGTG 4680
QY 4681 GTCTCTCATCTCAGAAATGCAATCAGTCAAGTTCGTAATTTGTATGTGTGA 4740
DB 4681 GTCTCTCATCTCAGAAATGCAATCAGTCAAGTTCGTAATTTGTATGTGTGA 4740
QY 4741 TGCTTCTCCAAAGGTATTAATTAATTAAGAGTGTGACAAAACAGATGATTAAG 4800
DB 4741 TGCTTCTCCAAAGGTATTAATTAATTAAGAGTGTGACAAAACAGATGATTAAG 4800
QY 4801 CTGCGAACCTGGGCAACAGCTCATAGTTCGTGAGTTCGAGAGTGAAGAGGATG 4860
DB 4801 CTGCGAACCTGGGCAACAGCTCATAGTTCGTGAGTTCGAGAGTGAAGAGGATG 4860
QY 4861 GCTTGAACAAGGTTCAAGGCCAGCTGGGCAACATTAACAATCTGCTCAAAA 4920
DB 4861 GCTTGAACAAGGTTTCAAGGCCAGCTGGGCAACATTAACAATCTGCTCAAAA 4920
QY 4921 AAAAAAAAAAAAAAAAAAGAGAGAGGCGGCGTGTGCTCACGCTGTATCCA 4980

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Db      4921  AAAAAAAAAAAGAGAGAGAGGCGGCGTGTGCTACCCCTGTATCCCA 4980
Qy      4981  GCACCTTTGGAGAGCGGAGCGGAGATCACTGTGTGTCAGAGAGTTTGAGACAAGCCCTGG 5040
Db      4981  GCACCTTTGGAGAGCGGAGCGGAGATCACTGTGTGTCAGAGAGTTTGAGACAAGCCCTGG 5040
Qy      5041  CCAACATGGCAAAACCCCGCTCTGTACTCAAAATGCAAAATTTAGCCAGCGGTGTAGAG 5100
Db      5041  CCAACATGGCAAAACCCCGCTCTGTACTCAAAATGCAAAATTTAGCCAGCGGTGTAGAG 5100
Qy      5101  GCACCTGTATCCAGCTACTCTTGGAGGCTGAGAGAGAAATGGCTGAACCCAGAGAG 5160
Db      5101  GCACCTGTATCCAGCTACTCTTGGAGGCTGAGAGAGAAATGGCTGAACCCAGAGAG 5160
Qy      5161  TGGAGGTTGCATTAAGCTGAGATCGTGCCTTGCCTCCAGCCTGGGCGAGAGAGCAAG 5220
Db      5161  TGGAGGTTGCATTAAGCTGAGATCGTGCCTTGCCTCCAGCCTGGGCGAGAGCAAG 5220
Qy      5221  ACTCTGTCTCAGAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 5280
Db      5221  ACTCTGTCTCAGAAAAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 5280
Qy      5281  AAGAGAGAGATGGGAGAGATTCAGAGAGAAATTTGCTTTATCCAAATAATGTAGAGAG 5340
Db      5281  AAGAGAGAGATGGGAGAGATTCAGAGAGAAATTTGCTTTATCCAAATAATGTAGAGAG 5340
Qy      5341  CAATAGAGGATCCCTATTGCTCTTTGCTGATTTGCTATTTGCTTATTTGCTTATTTG 5400
Db      5341  CAATAGAGGATCCCTATTGCTCTTTGCTGATTTGCTATTTGCTTATTTGCTTATTTG 5400
Qy      5401  CAGTGAAGAAAAATATTCAGAAATACCATATCCCTGTGCGTTATTAATCTAGCAACCTT 5460
Db      5401  CAGTGAAGAAAAATATTCAGAAATACCATATCCCTGTGCGTTATTAATCTAGCAACCTT 5460
Qy      5461  CAATGAAGATGAGAGATTCAGAGAGAAATTTGAATGACAATGCTTTATTTATTTATCTT 5520
Db      5461  CAATGAAGATGAGAGATTCAGAGAGAAATTTGAATGACAATGCTTTATTTATTTATCTT 5520
Qy      5521  ATTGTACATTAATTTGTAAAAAGTTAAAAATTTGTACTTCATGTATTCATTTATTTT 5580
Db      5521  ATTGTACATTAATTTGTAAAAAGTTAAAAATTTGTACTTCATGTATTCATTTATTTT 5580
Qy      5581  AATTAATTTTGGCTTAATGATTTTATTAATCATGATTTTCTTTCTGATATATTTGAA 5640
Db      5581  AATTAATTTTGGCTTAATGATTTTATTAATCATGATTTTCTTTCTGATATATTTGAA 5640
Qy      5641  TGGAGTCTCAAGCTTCAATTAATTTATTAATTTAGAAATGATTTCAATTAAGAGATGT 5700
Db      5641  TGGAGTCTCAAGCTTCAATTAATTTATTAATTTAGAAATGATTTCAATTAAGAGATGT 5700
Qy      5701  AATTTGAATTTGCAATGATTTGCTTCAAGAGCCATTTCTCTGATTTTGTAACTTT 5760
Db      5701  AATTTGAATTTGCAATGATTTGCTTCAAGAGCCATTTCTCTGATTTTGTAACTTT 5760
Qy      5761  TATGACAGAAATTTGCTTGGCTCCTCACTTCAATCACTTTAAATTAAGATTAATTT 5820
Db      5761  TATGACAGAAATTTGCTTGGCTCCTCACTTCAATCACTTTAAATTAAGATTAATTT 5820
Qy      5821  TGGAGCTGTGAAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5880
Db      5821  TGGAGCTGTGAAGATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTA 5880
Qy      5881  AAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5940
Db      5881  AAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5940
Qy      5941  TAATCACTAATTTTCTCAGAGGCTGTAAGAGCCATTTCAATGAGAGAAAAATGATCTT 6000
Db      5941  TAATCACTAATTTTCTCAGAGGCTGTAAGAGCCATTTCAATGAGAGAAAAATGATCTT 6000
Qy      6001  CAACAAATGGTGTAGCTAATTTGATTTATTAATTAATTAATTAATTAATTAATTAAT 6060
Db      6001  CAACAAATGGTGTAGCTAATTTGATTTATTAATTAATTAATTAATTAATTAATTAAT 6060

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Qy      6061  TAACACCATATATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 6120
Db      6061  TAACACCATATATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 6120
Qy      6121  TTTATTAATCCGTGAGAGAGAAATAGTTAAATTTTATTTGCTTTAGATTTGAGCAAG 6180
Db      6121  TTTATTAATCCGTGAGAGAGAAATAGTTAAATTTTATTTGCTTTAGATTTGAGCAAG 6180
Qy      6181  CTTCTTAATATGACATCAAAAGCAAGCAACCAAGCAAAATTAATTAATTAATTAAT 6240
Db      6181  CTTCTTAATATGACATCAAAAGCAAGCAACCAAGCAAAATTAATTAATTAATTAAT 6240
Qy      6241  TCATCGAATTTAAAAATCTTTGTGATCAAGAGACATTAATTAAGAGTTGATTTAT 6300
Db      6241  TCATCGAATTTAAAAATCTTTGTGATCAAGAGACATTAATTAAGAGTTGATTTAT 6300
Qy      6301  CCCACAGAGTGGAGAGAAACATTTGCAATCATATATCTGATTAAGGTTGTGATTTAT 6360
Db      6301  CCCACAGAGTGGAGAGAAACATTTGCAATCATATATCTGATTAAGGTTGTGATTTAT 6360
Qy      6361  GATATATATATAGTTTGTGATAGTTCTGAGCTTATTAACCCCTCAACCTTGTATC 6420
Db      6361  GATATATATATAGTTTGTGATAGTTCTGAGCTTATTAACCCCTCAACCTTGTATC 6420
Qy      6421  AGTCATTTGTATTAAGTTGATGATGTTAGGCTCAGAGCAAAATCTCTCTCACT 6480
Db      6421  AGTCATTTGTATTAAGTTGATGATGTTAGGCTCAGAGCAAAATCTCTCTCACT 6480
Qy      6481  TCTCGACCCCTCTGTCTCTGCACTCATTTCTCCCTGAGGCAATAGAAATCTAGAT 6540
Db      6481  TCTCGACCCCTCTGTCTCTGCACTCATTTCTCCCTGAGGCAATAGAAATCTAGAT 6540
Qy      6541  CTCTCTTCCAGAGCGGTCAAG 6564
Db      6541  CTCTCTTCCAGAGCGGTCAAG 6564

RESULT 2
US-09-966-880A-15
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OR INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-15

Query Match      33.1%; Score 2172; DB 1; Length 2172;
Best Local Similarity 100.0%; Pred. No. 2,1e-14;
Matches 2172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy      3741  CCCCTGATAGAGTTGATGATCACTTCAAGAGAGATTTCTGACTTTGAGACTTTGATAGCA 3800
Db      1      CCCCTGATAGAGTTGATGATCACTTCAAGAGAGATTTCTGACTTTGAGACTTTGATAGCA 60
Qy      3801  CTTCCAGGAATGTCAACAGATGAATATCTCTGCTGAAGACGTGATAAAAACAGT 3860

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Db	61	CTTCAGAAATGTCACACACGATGAAATATCTCGTCGAAGACATGGATPAAAAACAGT	120
OY	3861	CCCTCAAGTCTCTCTGTTTTTATCTTCACACTCTCACTTCTTAGATTTCAGAAAA	3920
Db	121	CCCTCAAGTCTCTCTGTTTTTATCTTCACACTCTCACTTCTTAGATTTCAGAAAA	180
OY	3921	ATATTTATATACGACTCTTTAAAAAGATCTATGCTTGAAATATGAGAGGAACACAGT	3980
Db	181	ATATTTATATACGACTCTTTAAAAAGATCTATGCTTGAAATATGAGAGGAACACAGT	240
OY	3981	CTGGCCAGGGACGCGTGCCAATTGGTGAGTTTGGATGCAACATGTCCTTACCTGGA	4040
Db	241	CTGGCCAGGGACGCGTGCCAATTGGTGAGTTTGGATGCAACATGTCCTTACCTGGA	300
OY	4041	ATAACAGAACTGCAGACCTGGAGACATCCPAAAGTCAACGTTTTCTATGACTTTTA	4100
Db	301	ATAACAGAACTGCAGACCTGGAGACATCCPAAAGTCAACGTTTTCTATGACTTTTA	360
OY	4101	GGTAGATGAGAGAGAGAGTAGATGCTTAAAAAGCATGCTGAGAGATCAAAATGTTTTA	4160
Db	361	GGTAGATGAGAGAGAGAGTAGATGCTTAAAAAGCATGCTGAGAGATCAAAATGTTTTA	420
OY	4161	TATCAACATCCTTTATTTATTTGATTCATTTGATTTACAGTGGTATAGATGATTTT	4220
Db	421	TATCAACATCCTTTATTTATTTGATTCATTTGATTTACAGTGGTATAGATGATTTT	480
OY	4221	TCTATCTCTTCCCTGAGCTTACTTCAAGTAAACAACACTCTTCATCAGGCCATGA	4280
Db	481	TCTATCTCTTCCCTGAGCTTACTTCAAGTAAACAACACTCTTCATCAGGCCATGA	540
OY	4281	TCTATAGGACCTCCTAATGAGAGTATCGGTGATGTGACCCCAACCATCTGCCAA	4340
Db	541	TCTATAGGACCTCCTAATGAGAGTATCGGTGATGTGACCCCAACCATCTGCCAA	600
OY	4341	GCATTAATATCCATCATGCGCTGATGTTTTAATCAGACAGAGTTTTTATGTTTG	4400
Db	601	GCATTAATATCCATCATGCGCTGATGTTTTAATCAGACAGAGTTTTTATGTTTG	660
OY	4401	TACAAAAAAGATTGTTAGGTGGGAGTGAAGGATATGACACAGCATGTCACCTTCAA	4460
Db	661	TACAAAAAAGATTGTTAGGTGGGAGTGAAGGATATGACACAGCATGTCACCTTCAA	720
OY	4461	GCTACTTAAATAAGATCTTAAAAATGGGACGAGACCTGGAAACAGACACCTTAATA	4520
Db	721	GCTACTTAAATAAGATCTTAAAAATGGGACGAGACCTGGAAACAGACACCTTAATA	780
OY	4521	TGGGTTGATGTCGAGTAGCAATCTTCTGGAAACGCAACTCTTTTAAAGAGTCCCT	4580
Db	781	TGGGTTGATGTCGAGTAGCAATCTTCTGGAAACGCAACTCTTTTAAAGAGTCCCT	840
OY	4581	AATTTAGAAACCCACAAACTGCATCATATATTAATTCGAAACAATTGGAAAGAGTGG	4640
Db	841	AATTTAGAAACCCACAAACTGCATCATATATTAATTCGAAACAATTGGAAAGAGTGG	900
OY	4641	CTTGATTTGGGAGAGAAAAATCTATGCGTCTCGGGCTCTTTCATCTCAGAAATG	4700
Db	901	CTTGATTTGGGAGAGAAAAATCTATGCGTCTCGGGCTCTTTCATCTCAGAAATG	960
OY	4701	CCAACTCAGGTCAGAGTTGCTACATTTTGATGTGTGATGCTTCTCCAAAGGATAT	4760
Db	961	CCAACTCAGGTCAGAGTTGCTACATTTTGATGTGTGATGCTTCTCCAAAGGATAT	1020
OY	4761	TAACTATATTAAGAGTGTGTGCAAAACAGATGTATTAAGCTGGGAAACGAGGACACGC	4820
Db	1021	TAACTATATTAAGAGTGTGTGCAAAACAGATGTATTAAGCTGGGAAACGAGGACACGC	1080
OY	4821	TCAATGTTCTAGCTCTTGGAGAGTGAAGAGGAGAGATGGCTTGAAACACAGTGTTCAA	4880
Db	1081	TCAATGTTCTAGCTCTTGGAGAGTGAAGAGGAGAGATGGCTTGAAACACAGTGTTCAA	1140
OY	4881	GGCCAGCTGGGCAACATPACAGATCCTGTCTCAAAAAAAAAAAAAAAAAAGAA	4940

Db	1141	GGCCAGCCTGGGCAACATTAACAAGATCTGTCTCTCAAAAAAAAAAAAAAAAAAGAA	1200
Qy	4941	GAGAGAGGCGCGGCGGTGTGTGCTCACGCTGTATTCACACACTTTGGAGGCGCGAGCC	5000
Db	1201	GAGAGAGGCGCGGCGGTGTGTGCTCACGCTGTATTCACACACTTTGGAGGCGCGAGCC	1260
Qy	5001	GGGGGAGATCACCTGTGTGTGAGAGGTTTGACACCGCTGGCGCAACATGGCAAAACCCGT	5060
Db	1261	GGGGGAGATCACCTGTGTGTGAGAGGTTTGACACCGCTGGCGCAACATGGCAAAACCCGT	1320
Qy	5061	CTGTACTCAAAATGCAAAAATTAGCCAGGCGGTGTACAGGCACTTGTAAATCCAGCTAC	5120
Db	1321	CTGTACTCAAAATGCAAAAATTAGCCAGGCGGTGTACAGGCACTTGTAAATCCAGCTAC	1380
Qy	5121	TTGGAGGCGGTGAGCAGAGATGCTTGAAACCGAGAGTGGAGGTTTGCAGTAAGCTGA	5180
Db	1381	TTGGAGGCGGTGAGCAGAGATGCTTGAAACCGAGAGTGGAGGTTTGCAGTAAGCTGA	1440
Qy	5181	GATGTGCGGTTTGACCTCCAGCCGTGGCGGCAAGAGAGAGCTGTCTCAGAAAAAAA	5240
Db	1441	GATGTGCGGTTTGACCTCCAGCCGTGGCGGCAAGAGAGAGCTGTCTCAGAAAAAAA	1500
Qy	5241	AAAAAAAAAGAGAGAGAGAGAGAAACAATTTTGGAGAGAGATGGGAGACAT	5300
Db	1501	AAAAAAAAAGAGAGAGAGAGAGAAACAATTTTGGAGAGAGATGGGAGACAT	1560
Qy	5301	TGCAGAGAAATTGCTTTATTCACAACAATGTAGAGACCATATAGGATCCTTATTGG	5360
Db	1561	TGCAGAGAAATTGCTTTATTCACAACAATGTAGAGACCATATAGGATCCTTATTGG	1620
Qy	5361	TCTCTTTGGTGTCTATTTTGTCCCTAACATGTCTTTGACAGAGAGAAAAATTCAGA	5420
Db	1621	TCTCTTTGGTGTCTATTTTGTCCCTAACATGTCTTTGACAGAGAGAAAAATTCAGA	1680
Qy	5421	ATAACCATATCCCTGTGCGCGTTTATTCACAGCAACCTTGCAATGAAGATGAGCAGATCC	5480
Db	1681	ATAACCATATCCCTGTGCGCGTTTATTCACAGCAACCTTGCAATGAAGATGAGCAGATCC	1740
Qy	5481	ACAGAGAAACTGTGATGACACACTGCTTATTTTATCTTATGTGTACATAAGTTTGAA	5540
Db	1741	ACAGAGAAACTGTGATGACACACTGCTTATTTTATCTTATGTGTACATAAGTTTGAA	1800
Qy	5541	AGAGTTAAAAATGTACTTCACTGATTCATTTATTTATTTATTTTGGCGTATG	5600
Db	1801	AGAGTTAAAAATGTACTTCACTGATTCATTTATTTATTTATTTTGGCGTATG	1860
Qy	5601	ATTTTATTAACATGATTCCTTCTTGATATATGATTAATGAAGAGCTCAAGCTTCATA	5660
Db	1861	ATTTTATTAACATGATTCCTTCTTGATATATGATTAATGAATGAAGCTTCATAAGCTTCATA	1920
Qy	5661	AATTATTAACCTTGAAGATGATCTTAATATACAGATATGATATGTACATTCAGATAT	5720
Db	1921	AATTATTAACCTTGAAGATGATCTTAATATACAGATATGATATGTACATTCAGATAT	1980
Qy	5721	GGTGTACGAAGCAATTTCTCTGATTTTGTAACTTTATGACAGCAATTTGCTTC	5780
Db	1981	GGTGTACGAAGCAATTTCTCTGATTTTGTAACTTTATGACAGCAATTTGCTTC	2040
Qy	5781	TGGCTCACTTCAATCAGTATTAATTAAGATTAATTAATTTTGAAGCTGTAAGATATA	5840
Db	2041	TGGCTCACTTCAATCAGTATTAATTAAGATTAATTAATTTTGAAGCTGTAAGATATA	2100
Qy	5841	TACCAATTAATAATATATAAAGATTTATATGATTAATAATTAATAATCAAGATGAT	5900
Db	2101	TACCAATTAATAATATATAAAGATTTATATGATTAATAATTAATAATCAAGATGAT	2160
Qy	5901	GGATTAACCTTG 5912	
Db	2161	GGATTAACCTTG 2172	

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; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

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Query Match          4.1%; Score 271; DB 1; Length 271;
Best Local Similarity 100.0%; Pred. No. 1.3; Mismatches 0; Indels 0; Gaps 0;
Matches 271; Conservative 0;

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QY 2592 AACGGCTGCACAGTGGATGCTCTCTCCGCTACATCTGGAGCTGAGACCTAGACCT 2651
DB 1 AACGGCTGCACAGTGGATGCTCTCTCCGCTACATCTGGAGCTGAGACCTAGACCT 60
QY 2652 GAGCGCTCTACACCGCTGACCTGTTCACTCTCTGAGACCCCTGCTAGACTGTGCCGA 2711
DB 61 GAGCGCTCTACACCGCTGACCTGTTCACTCTCTGAGACCCCTGCTAGACTGTGCCGA 120
QY 2712 CATGTGGCGGACTTCTCTGCGAGGAGACCCCACTCATCTGAGATCTTCAACCGCGCG 2771
DB 121 CATGTGGCGGACTTCTCTGCGAGGAGACCCCACTCATCTGAGATCTTCAACCGCGCG 180
QY 2772 CTCTACTCTGTGAGAGACCGGAGGCTGAGCGGCGGCTGACCGGCGC 2831
DB 131 CTCTACTCTGTGAGAGACCGGAGGCTGAGCGGCGGCTGACCGGCGC 240
QY 2832 GGGGTGCAATAGCCATCATGACCTTCAAG 2862
DB 241 GGGGTGCAATAGCCATCATGACCTTCAAG 271

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RESULT 4
US-09-966-880A-9/c
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens

```

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; FEATURE:
; NAME/KEY: intron
; LOCATION: (1)...(1031)
; FEATURE:
; NAME/KEY: exon
; LOCATION: (1032)...(1118)
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1119)...(5514)
US-09-966-880A-9

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Query Match          2.7%; Score 178.6; DB 1; Length 5514;
Best Local Similarity 83.1%; Pred. No. 0.25;
Matches 202; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

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QY 5012 CTGTGTGAGAGTTTGACACCAAGCTGGCCCAATGCAAAACCCCGTCTATCTCAA 5071
DB 5512 CTGAGGTGAGAGTTTGACACCAAGCTGGCCCAATGCAAAACCCCGTCTATCTCAA 5453
QY 5072 ATGCAAAATTTAGCCAGCGGTGTAGCAGGCACTGTATCCAGCTACTTGGAGGCTG 5131
DB 5452 ATGCAAAATTTAGCCAGGTGTGTGTGTGGCCCTGTATCTTACCCGGAGGCTG 5393
QY 5132 AGCAGAGAAATCGCTTGAACCCAGAGGTGAGGTGAGTGAAGCTGATCGCCGT 5191
DB 5392 AGCAGAGACTTGTGTAACCCAGAGGTGAGGTGAGTGAAGCTGATCGCCGT 5333
QY 5192 TGCATCTCAGCTGGGCGCAAGAGCAAGACTCTTCTTCAGAAAAAAGAG 5251
DB 5332 TGCATCTCAGCTGGGCGCAAGAGCAAGACTCTTCTTCAGAAAAAAGAG 5273
QY 5252 AGA 5254
DB 5272 AAA 5270

```

```

RESULT 5
US-09-966-880A-9
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FASTSEQ for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1)...(1031)
; FEATURE:
; NAME/KEY: exon
; LOCATION: (1032)...(1118)
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1119)...(5514)
US-09-966-880A-9

```

```

Query Match          2.7%; Score 174.2; DB 1; Length 5514;
Best Local Similarity 74.8%; Pred. No. 0.27;

```


Db 16 CAGCAGTAAAT 4

RESULT 13
US-09-966-880A-11
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-871992
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match 0.2%; Score 15.8; DB 1; Length 87;
Best Local Similarity 65.7%; Pred. No. 1.4e+02;
Matches 23; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 1765 ATGATTAAATTAATGATCTTCGGCTACCCGAGA 1799
Db 9 ATCATTAATTAAGTAGATTTTTCGGCTGAGA 43

RESULT 14
US-09-966-880A-12/C
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-871992
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

Query Match 0.2%; Score 15.8; DB 1; Length 148;
Best Local Similarity 60.5%; Pred. No. 83;
Matches 26; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 1559 CTTGTCCAGCAAAATTTAAATGAAAAACAATTGTGTC 1601
Db 58 CTTAGCCAGGAGACATTTTGAATGTAAAGAACTTCCTC 16

Search completed: March 10, 2004, 13:40:47
Job time : 58.0535 secs
GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OW nucleic - nucleic search, using sw model
Run on: March 10, 2004, 13:38:36 ; Search time 0.74294 Seconds
(without alignments)
3.483 Million cell updates/sec

Title: US-09-966-880A-11
Perfect score: 87
Sequence: 1 agagacaccatcataatga.....ctgagacaccatcatgagacag 87

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 0.5

Searched: 7 seqs, 14872 residues
Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : US09966880A.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	87	100.0	87 1 US-09-966-880A-11	Sequence 11, Appl
2	87	100.0	5514 1 US-09-966-880A-9	Sequence 9, Appl
3	17.4	20.0	6564 1 US-09-966-880A-10	Sequence 10, Appl
4	15.8	18.2	6564 1 US-09-966-880A-10	Sequence 10, Appl
5	14.4	16.6	2172 1 US-09-966-880A-15	Sequence 15, Appl
6	14.4	16.6	5514 1 US-09-966-880A-9	Sequence 9, Appl
7	13.4	15.4	87 1 US-09-966-880A-11	Sequence 11, Appl
8	13.4	15.4	2172 1 US-09-966-880A-15	Sequence 15, Appl
9	11.6	13.3	271 1 US-09-966-880A-13	Sequence 13, Appl
10	10.4	12.0	148 1 US-09-966-880A-12	Sequence 12, Appl
11	10.4	12.0	271 1 US-09-966-880A-13	Sequence 13, Appl
12	9.8	11.3	148 1 US-09-966-880A-12	Sequence 12, Appl
13	9.6	11.0	116 1 US-09-966-880A-14	Sequence 14, Appl
14	8.4	9.7	116 1 US-09-966-880A-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-09-966-880A-11
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 11
LENGTH: 87
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match 100.0%; Score 87; DB 1; Length 87;
Best Local Similarity 100.0%; Pred. No. 9e-62;
Matches 87; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGAGAACCATCATTAATGAGTGAATTTTCTGGCTGAGACTTGAGGAGGAGCAAGA 60
DB 1 AGAGAACCATCATTAATGAGTGAATTTTCTGGCTGAGACTTGAGGAGGAGCAAGA 60

QY 61 AGACACTCTGGACACCACTATGACAG 87
DB 61 AGACACTCTGGACACCACTATGACAG 87

RESULT 2
US-09-966-880A-9
Sequence 9, Application US/09966880A
GENERAL INFORMATION:

APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 9
LENGTH: 5514
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: Intron
LOCATION: (1)...(1031)
FEATURE:
NAME/KEY: exon
LOCATION: (1032)...(1118)
FEATURE:
NAME/KEY: Intron
LOCATION: (1119)...(5514)
US-09-966-880A-9

Query Match 100.0%; Score 87; DB 1; Length 5514;
Best Local Similarity 100.0%; Pred. No. 8.8e-56;
Matches 87; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AGAGAACCATCATTAATGAGTGAATTTTCTGGCTGAGACTTGAGGAGGAGCAAGA 60
DB 1032 AGAGAACCATCATTAATGAGTGAATTTTCTGGCTGAGACTTGAGGAGGAGCAAGA 1031
QY 61 AGACACTCTGGACACCACTATGACAG 87

DB 1092 AGACACTCTGGACACCACTATGACAG 1118

RESULT 3
US-09-966-880A-10/c
Sequence 10, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 6564
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-10

Query Match 20.0%; Score 17.4; DB 1; Length 6564;
Best Local Similarity 62.8%; Pred. No. 0.21; Indels 0; Gaps 0;
Matches 27; Conservative 0; Mismatches 16; Indels 0;

QY 4 GAACCATCATTAATGAGTGAATTTTCTGGCTGAGACTT 46
DB 543 GAACCATCATTAATGAGTGAATTTTCTGGCTGAGACTT 501

RESULT 4
US-09-966-880A-10
Sequence 10, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 6564
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-10

Query Match 18.2%; Score 15.8; DB 1; Length 6564;
Best Local Similarity 65.7%; Pred. No. 2.5;
Matches 23; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 9 ATCATTAATTAATGAGTGAATTTTCTGGCTGAGACTT 43
DB 1765 ATCATTAATTAATGAGTGAATTTTCTGGCTGAGACTT 1799

RESULT 5

US-09-966-880A-15
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-15

Query Match 16.6%; Score 14.4; DB 1; Length 2172;
Best Local Similarity 65.6%; Pred. No. 4.1;
Matches 21; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 19 GAAGTGAATTTTCTGCGCTGAGACTTGAC 50
DB 227 GAAGGACACAGCTCTGGCCAGGAGACTG 258

RESULT 6

US-09-966-880A-9/c
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1)...(1031)
; FEATURE:
; NAME/KEY: exon
; LOCATION: (1032)...(1118)
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1119)...(5514)
US-09-966-880A-9

Query Match 16.6%; Score 14.4; DB 1; Length 5514;
Best Local Similarity 51.6%; Pred. No. 4.4;
Matches 33; Conservative 0; Mismatches 31; Indels 0; Gaps 0;

QY 24 GAAGTTCCTGCGCTGAGACTTGACGAGGAGGACAGACACTCTGACACCACTATGG 83

DB 642 GAGCTCAGATGACCTCTAATTCCTCCATATTCCTCCAGCTCTCTGAACTCTAGTACAG 583

QY 84 ACAG 87

DB 582 ACAG 579

RESULT 7

US-09-966-880A-11/c
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match 15.4%; Score 13.4; DB 1; Length 87;
Best Local Similarity 55.3%; Pred. No. 0.026;
Matches 26; Conservative 0; Mismatches 21; Indels 0; Gaps 0;

QY 21 AGTGAGATTTTCTGCGCTGAGACTTGACGAGGAGGACAGAGACT 67
DB 67 AGTGTCTTCTGCTCCTCCCTCAAGTCTCAGGCCAGAAAATCTCACT 21

RESULT 8

US-09-966-880A-15/c
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-15

Query Match 15.4%; Score 13.4; DB 1; Length 2172;
Best Local Similarity 52.7%; Pred. No. 11;

RESULT 13
US-09-966-880A-14
Sequence 14, Application US/09966880A

GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 1999-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14
LENGTH: 116
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match 11.0%; Score 9.6; DB 1; Length 116;
Best Local Similarity 56.2%; Pred. No. 51;
Matches 18; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

QY 45 TTGCGAGGAGGCGAAGACACTCTGCAACC 76
DB 25 TTGTAGAAAACGACGAAGACTTTCAGGCC 56

RESULT 14
US-09-966-880A-14/c
Sequence 14, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14
LENGTH: 116
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match 9.7%; Score 8.4; DB 1; Length 116;
Best Local Similarity 57.7%; Pred. No. 1.9e+02;
Matches 15; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 49 AGGAGGCGAAGACACTCTGACA 74
DB 113 AAGGATGCGCGAAGACTGTCTGAGA 88

Search completed: March 10, 2004, 13:40:47
Job time : 0.74294 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: March 10, 2004, 13:38:36 ; Search time 1.26385 Seconds
(without alignments)
3.483 Million cell updates/sec

Title: US-09-966-880A-12
Perfect score: 148
Sequence: 1 cctcttgagcaaccgagga.....ttggtatcttcgcaataag 148

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 0.5

Searched: 7 seqs, 14872 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Database : US09966880A.seq.*
Listing first 45 summaries

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	DB ID	Description
1	148	100.0	1 US-09-966-880A-12	Sequence 10, Appl
2	148	100.0	1 US-09-966-880A-10	Sequence 12, Appl
3	18.3	12.4	1 US-09-966-880A-9	Sequence 9, Appl
4	15.8	10.7	1 US-09-966-880A-10	Sequence 10, Appl
5	15.4	10.4	1 US-09-966-880A-9	Sequence 9, Appl
6	15.2	10.3	1 US-09-966-880A-12	Sequence 12, Appl
7	14.8	10.0	1 US-09-966-880A-15	Sequence 15, Appl
8	14.8	10.0	1 US-09-966-880A-13	Sequence 13, Appl
9	13.8	9.3	1 US-09-966-880A-14	Sequence 14, Appl
10	13.4	9.1	1 US-09-966-880A-14	Sequence 13, Appl
11	12.6	8.5	1 US-09-966-880A-11	Sequence 11, Appl
12	10.4	7.0	1 US-09-966-880A-11	Sequence 11, Appl
13	9.8	6.6	1 US-09-966-880A-11	Sequence 11, Appl
14	9	6.1	1 US-09-966-880A-14	Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-09-966-880A-12
Sequence 12, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27

```

; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

```

```

Query Match      100.0%; Score 148; DB 1; Length 148;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 CCTCTTGATGAACCGAGAAAGTTCTTTACCAATTCAAAATGTCGGCTGGGCTAAAGG 60
Db 1 CCTCTTGATGAACCGAGAAAGTTCTTTACCAATTCAAAATGTCGGCTGGGCTAAAGG 60
Qy 61 TCGGGGTAGACCTTCTGTCTACGTAGTGAAGAGGGGCTGACAGTCTACATCTTTTC 120
Db 61 TCGGGGTAGACCTTCTGTCTACGTAGTGAAGAGGGGCTGACAGTCTACATCTTTTC 120
Qy 121 ACTGACCTTGGTTATCTTCCGCAATTAAG 148
Db 121 ACTGACCTTGGTTATCTTCCCAATTAAG 148

```

RESULT 2

```

US-09-966-880A-10
; Sequence 10, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-10

```

```

Query Match      100.0%; Score 148; DB 1; Length 6564;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 148; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 CCTCTTGATGAACCGAGAAAGTTCTTTACCAATTCAAAATGTCGGCTGGGCTAAAGG 60
Db 1065 CCTCTTGATGAACCGAGAAAGTTCTTTACCAATTCAAAATGTCGGCTGGGCTAAAGG 1124
Qy 61 TCGGGGTAGACCTTCTGTCTACGTAGTGAAGAGGGGCTGACAGTCTACATCTTTTC 120
Db 1235 TCGGGGTAGACCTTCTGTCTACGTAGTGAAGAGGGGCTGACAGTCTACATCTTTTC 1184
Qy 121 ACTGACCTTGGTTATCTTCCGCAATTAAG 148
Db 1185 ACTGACCTTGGTTATCTTCCCAATTAAG 1212

```

RESULT 3

```

US-09-966-880A-9/c
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; NAME/KEY: Intron
; LOCATION: (1)...(1031)
; FEATURE:
; NAME/KEY: exon
; LOCATION: (1032)...(1118)
; FEATURE:
; NAME/KEY: Intron
; LOCATION: (1119)...(5514)
US-09-966-880A-9

```

```

Query Match      12.4%; Score 18.3; DB 1; Length 5514;
Best Local Similarity 64.6%; Pred. No. 2.2;
Matches 42; Conservative 0; Mismatches 22; Indels 1; Gaps 1;

```

```

Qy 71 ACCTACCTGTGTACGTAG-TGAAGAGGGGTCGACAGTCTTCTTCTACGTGACTT 129
Db 2964 ACCCTCTGGCGGTGTAGATGAGAAAGGAGGAATCTACATCTTTTACATGACACT 2905
Qy 130 TGGTT 134
Db 2904 TGGTT 2900

```

RESULT 4

```

US-09-966-880A-10/c
; Sequence 10, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966, 880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-10

```

Query Match 10.7%; Score 15.8; DB 1; Length 6564;
 Best Local Similarity 60.5%; Pred. No. 2;
 Matches 26; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 16 GAGGAGATTCTTACCAATTCAAAAATGCGCTGGGCTAG 58
 DB 1601 GACACAAATTGTTTTCACATTAAATTTTGTGACAAAG 1559

RESULT 5
 US-09-966-880A-9
 ; Sequence 9, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; PRIOR FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 9
 ; LENGTH: 5514
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: intron
 ; LOCATION: (1)...(1031)
 ; FEATURE:
 ; NAME/KEY: exon
 ; LOCATION: (1032)...(1118)
 ; FEATURE:
 ; NAME/KEY: intron
 ; LOCATION: (1119)...(5514)
 ; US-09-966-880A-9

Query Match 10.4%; Score 15.4; DB 1; Length 5514;
 Best Local Similarity 76.0%; Pred. No. 2.4;
 Matches 19; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

QY 69 AGACCTACTGCTGTCTACGTAGTGA 93
 DB 4349 AGACGACCTGGGACACACAGTGA 4373

RESULT 6
 US-09-966-880A-12/c
 ; Sequence 12, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; PRIOR FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 12
 ; LENGTH: 148
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-966-880A-12

Query Match 10.3%; Score 15.2; DB 1; Length 148;
 Best Local Similarity 45.2%; Pred. No. 78;
 Matches 56; Conservative 0; Mismatches 68; Indels 0; Gaps 0;

QY 24 TTCTTACCAATTCAAAATGTCGCTGAGGCTGAGACCTACCTGTCT 83
 DB 147 TTATGGGAAGATACCAAGTCCAGTGAAAAGATGTGACTGTACAGCCTTCAT 88
 QY 84 ACCTAGTGAAGAGCGCTGACAGTGTACATCCCTTTCACTGACCTTGTGTTCGCA 143
 DB 87 ACCTAGCAGCAGTAGTCTTCACGCCGACCCCTTAGCCAGCGACATTTTGAATTGTAA 28
 QY 144 ATAA 147
 DB 27 AGAA 24

RESULT 7
 US-09-966-880A-15
 ; Sequence 15, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; PRIOR FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 15
 ; LENGTH: 2172
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; US-09-966-880A-15

Query Match 10.0%; Score 14.8; DB 1; Length 2172;
 Best Local Similarity 56.0%; Pred. No. 5.9; 22; Indels 0; Gaps 0;
 Matches 28; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

QY 70 GACCTACCTGTCTACCTAGTGAAGGCGTGAAGTGTACATCCCTTT 119
 DB 1876 GATTCTCTTTCGATATATTGAATGAGTCTCAAGCTTCAATTT 1925

RESULT 8
 US-09-966-880A-15/c
 ; Sequence 15, Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; PRIOR FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999

;; PRIOR FILING DATE: 1999-06-24
;; PRIOR APPLICATION NUMBER: JP 11-87192
;; PRIOR FILING DATE: 1999-03-29
;; NUMBER OF SEQ ID NOS: 36
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 15
;; LENGTH: 2172
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-966-880A-15

Query Match 10.0%; Score 14.8; DB 1; Length 2172;
Best Local Similarity 64.7%; Pred. No. 5.9;
Matches 22; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 106 TCGTACATCTTTTCACTGAGACTTGGTTATCTT 139
DB 1556 TTCCCATCTCTCTCTCCCAATATGTTCTCTT 1523

RESULT 9
US-09-966-880A-13/c
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi

;; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
;; FILE REFERENCE: 06501-088001
;; CURRENT APPLICATION NUMBER: US/09/966,880A
;; PRIOR FILING DATE: 2001-09-28
;; PRIOR APPLICATION NUMBER: PCT/JP00/01918
;; PRIOR FILING DATE: 2000-03-28
;; PRIOR APPLICATION NUMBER: JP 11-371382
;; PRIOR FILING DATE: 1999-12-27
;; PRIOR APPLICATION NUMBER: JP 11-178999
;; PRIOR FILING DATE: 1999-06-24
;; PRIOR APPLICATION NUMBER: JP 11-87192
;; PRIOR FILING DATE: 1999-03-29
;; NUMBER OF SEQ ID NOS: 36
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 13
;; LENGTH: 271
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match 9.3%; Score 13.8; DB 1; Length 271;
Best Local Similarity 49.3%; Pred. No. 45;
Matches 36; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

QY 76 CCTGTGCTACGTAGTGAAGGCGTGACAGTCTACATCTTTTCACTGAGACTTTGGTTA 135
DB 204 CTTGGGGTCTCTACAGAACTAGAGGCGCGGTGAAGATCTCAGACTGAGTTGGGTT 145

QY 136 TCTTGGCAATPAG 148
DB 144 CCTCGCAGAAAG 132

RESULT 10
US-09-966-880A-14/c
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi

;; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
;; FILE REFERENCE: 06501-088001
;; CURRENT APPLICATION NUMBER: US/09/966,880A
;; PRIOR FILING DATE: 2001-09-28
;; PRIOR APPLICATION NUMBER: PCT/JP00/01918
;; PRIOR FILING DATE: 2000-03-28
;; PRIOR APPLICATION NUMBER: JP 11-371382
;; PRIOR FILING DATE: 1999-12-27

;; PRIOR APPLICATION NUMBER: JP 11-178999
;; PRIOR FILING DATE: 1999-06-24
;; PRIOR APPLICATION NUMBER: JP 11-87192
;; PRIOR FILING DATE: 1999-03-29
;; NUMBER OF SEQ ID NOS: 36
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 14
;; LENGTH: 116
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match 9.1%; Score 13.4; DB 1; Length 116;
Best Local Similarity 46.3%; Pred. No. 16+02;
Matches 44; Conservative 0; Mismatches 51; Indels 0; Gaps 0;

QY 54 CTAAGGTGGGCTGAGACTTCTGTCTAGTAGTGAAGGGGTGACAGTGTACT 113
DB 116 CAAAGAGATGCGCGGAAGCTGTCTGAGAGACGAAGTAATTTCTATGACAGCCCTTCCCA 57

QY 114 CTTTCACTGACTTGGTTACTTCGCAATPAG 148
DB 56 GGCCTTGAAGTTCTTCTGTTCTTTCTACAAAG 22

RESULT 11
US-09-966-880A-13
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
;; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
;; FILE REFERENCE: 06501-088001
;; CURRENT APPLICATION NUMBER: US/09/966,880A
;; PRIOR FILING DATE: 2001-09-28
;; PRIOR APPLICATION NUMBER: PCT/JP00/01918
;; PRIOR FILING DATE: 2000-03-28
;; PRIOR APPLICATION NUMBER: JP 11-371382
;; PRIOR FILING DATE: 1999-12-27
;; PRIOR APPLICATION NUMBER: JP 11-178999
;; PRIOR FILING DATE: 1999-06-24
;; PRIOR APPLICATION NUMBER: JP 11-87192
;; PRIOR FILING DATE: 1999-03-29
;; NUMBER OF SEQ ID NOS: 36
;; SOFTWARE: FastSeq for Windows Version 4.0
;; SEQ ID NO 13
;; LENGTH: 271
;; TYPE: DNA
;; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match 8.5%; Score 12.6; DB 1; Length 271;
Best Local Similarity 66.7%; Pred. No. 47;
Matches 18; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

QY 49 CTGGGCTTAAGGCTGCGGCTGAGACTTA 75
DB 28 CTCGCTACATCTCGACTGGAGACTTA 54

RESULT 12
US-09-966-880A-11
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi

;; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
;; FILE REFERENCE: 06501-088001
;; CURRENT APPLICATION NUMBER: US/09/966,880A
;; PRIOR FILING DATE: 2001-09-28
;; PRIOR APPLICATION NUMBER: PCT/JP00/01918
;; PRIOR FILING DATE: 2000-03-28
;; PRIOR APPLICATION NUMBER: JP 11-371382

```

; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match      7.0%; Score 10.4; DB 1; Length 87;
Best Local Similarity 55.6%; Pred. No. 1.5e+02;
Matches 20; Conservative 0; Mismatches 16; Indels 0; Gaps 0;

```

```

QY      61 TCGGCGTGAGACCTTACTGTGCTAGCTAGTGAAGAG 96
Db      17 TTGAAGTGAGATTCTTCTGCGCTGAGACTTGACAGG 52

```

```

RESULT 13
US-09-966-880A-11/c
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasaku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match      6.6%; Score 9.8; DB 1; Length 87;
Best Local Similarity 66.7%; Pred. No. 1.5e+02;
Matches 14; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

```

```

QY      118 TTCACGTGACCTTGTTATCT 138
Db      21 TTCATTTATGATGTTCTCT 1

```

```

RESULT 14
US-09-966-880A-14
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasaku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24

```

```

; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

```

```

Query Match      6.1%; Score 9; DB 1; Length 116;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      111 CATCCTTTT 119
Db      107 CATCCTTTT 115

```

```

Search completed: March 10, 2004, 13:40:47
Job time : 1.26385 secs

```

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

```

Run on:      March 10, 2004, 13:38:36 ; Search time 2.31421 Seconds
              (without alignments)
              3.483 Million cell updates/sec

```

Title: US-09-966-880A-13

Perfect score: 271
Sequence: 1 aacgcctgcacagctggaatt.....agccatcatgacctccaag 271

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 0.5

Searched: 7 segs, 14872 residues

Total number of hits satisfying chosen parameters: 14

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : US09966880A.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	271	100.0	271	1	US-09-966-880A-13
2	271	100.0	6564	1	US-09-966-880A-10
3	20.6	7.6	6564	1	US-09-966-880A-10
4	20.2	7.5	271	1	US-09-966-880A-13
5	17.6	6.5	5514	1	US-09-966-880A-9
6	16	5.9	5514	1	US-09-966-880A-9
7	13.8	5.1	148	1	US-09-966-880A-12
8	13.4	4.9	2172	1	US-09-966-880A-15
9	12.6	4.6	148	1	US-09-966-880A-12
10	12	4.4	2172	1	US-09-966-880A-15
11	11.6	4.3	87	1	US-09-966-880A-11
12	10.4	3.8	87	1	US-09-966-880A-11

c 13 10 3.7 116 1 US-09-966-880A-14 Sequence 14, Appl
14 8.8 3.2 116 1 US-09-966-880A-14 Sequence 14, Appl

ALIGNMENTS

RESULT 1
US-09-966-880A-13
Sequence 13, Application US/09966880A

GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 13
LENGTH: 271
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match 100.0%; Score 271; DB 1; Length 271;
Best Local Similarity 100.0%; Pred. No. 0.68;
Matches 271; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACGGCTGCCAGTGGAAATTTGCTTCTCCGCTACATCTTGAGACTGGAGCTAGACCTT 60
DB 1 AACGGCTGCCAGTGGAAATTTGCTTCTCCGCTACATCTTGAGACTGGAGCTAGACCTT 60
QY 61 GGGCGCTGCTACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 61 GGGCGCTGCTACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
QY 121 CATGTGGCCGACTTTCTGCGAGGAAACCCCACTCACTGAGAGCTTCAACCGCGCC 180
DB 121 CATGTGGCCGACTTTCTGCGAGGAAACCCCACTCACTGAGAGCTTCAACCGCGCC 180
QY 181 CTCTACTTCTGTGAGAGCCGCAAGGCTGAGCCCGGCTGCGCGCTGACCGCGCC 240
DB 181 CTCTACTTCTGTGAGAGCCGCAAGGCTGAGCCCGGCTGCGCGCTGACCGCGCC 240
QY 241 GGGGTGCAATATGACCATATGACCTTCAAG 271
DB 241 GGGGTGCAATATGACCATATGACCTTCAAG 271

RESULT 2
US-09-966-880A-10
Sequence 10, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 6564
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-10

Query Match 100.0%; Score 271; DB 1; Length 6564;
Best Local Similarity 100.0%; Pred. No. 0.03;
Matches 271; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 AACGGCTGCCAGTGGAAATTTGCTTCTCCGCTACATCTTGAGACTGGAGCTAGACCTT 60
DB 2592 AACGGCTGCCAGTGGAAATTTGCTTCTCCGCTACATCTTGAGACTGGAGCTAGACCTT 2651
QY 61 GGGCGCTGCTACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
DB 2652 GGGCGCTGCTACCGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 120
QY 121 CATGTGGCCGACTTTCTGCGAGGAAACCCCACTCACTGAGAGCTTCAACCGCGCC 180
DB 2712 CATGTGGCCGACTTTCTGCGAGGAAACCCCACTCACTGAGAGCTTCAACCGCGCC 2771
QY 181 CTCTACTTCTGTGAGAGCCGCAAGGCTGAGCCCGGCTGCGCGCTGACCGCGCC 240
DB 2772 CTCTACTTCTGTGAGAGCCGCAAGGCTGAGCCCGGCTGCGCGCTGACCGCGCC 2831
QY 241 GGGGTGCAATATGACCATATGACCTTCAAG 271
DB 2832 GGGGTGCAATATGACCATATGACCTTCAAG 2862

RESULT 3

US-09-966-880A-10/c
Sequence 10, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tasuku
APPLICANT: Muramatsu, Masamichi
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-87192
PRIOR FILING DATE: 1999-03-29
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 6564
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-10

Query Match 7.6%; Score 20.6; DB 1; Length 6564;
Best Local Similarity 51.6%; Pred. No. 1.8;
Matches 47; Conservative 0; Mismatches 44; Indels 0; Gaps 0;

QY 173 CGCGGCGCTCTTCTGTGAGAGCCGCAAGGCTGAGCCCGGAGGCGCTGCGCGCTGCG 232
DB 2872 CTTTGCACCTTTGAAGGATGATGAGGCTATTTGACCCCGGCGGCTGAGCGCGCC 2813
QY 233 ACCGCGCGGCGGTCGAATATGACCATATGAC 263
DB 2812 AGCCCTCGGGCTGACCTTGGCGTCTGAC 2782

```

RESULT 4
US-09-966-880A-13/c
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match
Best Local Similarity 7.5%; Score 20.2; DB 1; Length 271;
Matches 40; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY 191 GTGAGACCGCAGGCTGAGCCCGAGGGGCTGCGGCGGCTGACCCGCGGGGTGCAA 250
DB 263 GTCATGATGGCTATTGTGACCCCGCGGGTGCACCCCGCAGCCCTCGGGCTCAGCC 204
QY 251 TAGCCATCATGAC 263
DB 203 TTGCGGCTCCTCAGC 191

```

```

; LOCATION: (1119)...(5514)
US-09-966-880A-9

Query Match
Best Local Similarity 5.9%; Score 16; DB 1; Length 5514;
Matches 31; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 31 CGCTGACTCTCGAGCTGAGACCTAGACCTGCGCGCTGTAACCGGTACCTGTTAC 90
DB 1008 CCTTACATTCATAATTGAGCTTGCCCTTTGGGCTCCTCCCGAGAGATCACCC 949
QY 91 TCCTGAGCCCC 102
DB 948 ACCAGGTACCCC 937

RESULT 6
US-09-966-880A-9
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1)...(1031)
; NAME/KEY: exon
; LOCATION: (1032)...(1118)
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1119)...(5514)
US-09-966-880A-9

Query Match
Best Local Similarity 5.9%; Score 16; DB 1; Length 5514;
Matches 31; Conservative 0; Mismatches 25; Indels 0; Gaps 0;

QY 36 CATCTGGAGTGGAGACTAGACCTTGGCGGCTGTAACCGGTACCTGTTACCT 91
DB 2023 CAGCGAGGCTGTCTTAAGTCTTGCGCCCAAGCATCTCTCGTGGGCTCTCT 2078

RESULT 7
US-09-966-880A-12/c
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382

```

```

; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

```

```

Query Match
Best Local Similarity 5.1%; Score 13.8; DB 1; Length 148;
Matches 36; Conservative 0; Mismatches 37; Indels 0; Gaps 0;

```

```

Qy 132 CTTTCTGAGAGGAAACCCCACTGAGATCTTCAACCGCGCCTTACTTCTG 191
Db 148 CTTATTGGAGATACCAAGTCCAGTAAAGAGATAGCACTGTACGCCCTTTCAC 89

```

```

Qy 192 TGAGAGCCGCAAG 204
Db 88 TACGTAGCACAGG 76

```

```

RESULT 8
US-09-966-880A-15/c
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-15

```

```

Query Match
Best Local Similarity 4.9%; Score 13.4; DB 1; Length 2172;
Matches 29; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

```

```

Qy 33 CTACATCTCGAGCTGAGACCTGAGCCCTGCGCGCTCTACCGCGCTGAGTTC 87
Db 361 CTTAAAGTCATAGAAAAAGCTTGACACTTAGAGATCTCCAGATCTCGAGTTC 307

```

```

RESULT 9
US-09-966-880A-12
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28

```

```

; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

```

```

Query Match
Best Local Similarity 4.6%; Score 12.6; DB 1; Length 148;
Matches 18; Conservative 0; Mismatches 9; Indels 0; Gaps 0;

```

```

Qy 28 CTCGCTACATCTCGAGCTGGAGCTTA 54
Db 49 CTGGGCTAAGGATCGCGCTGAGACCTA 75

```

```

RESULT 10
US-09-966-880A-15
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-15

```

```

Query Match
Best Local Similarity 4.4%; Score 12; DB 1; Length 2172;
Matches 33; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

```

```

Qy 87 CACTCTGAGAGCCCTGCTAGACCTGCGGACATGAGCGCACTTCTCGAGGGA 146
Db 522 CTTTCATCAGCGCATATATAGACCTCTAATGAGATCTGGGTATTTGTAC 581
Qy 147 CCCCAAC 154
Db 582 CCCAAAC 589

```

```

RESULT 11
US-09-966-880A-11
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918

```

```

; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match
Best Local Similarity 54.8%; Score 11.6; DB 1; Length 87;
Matches 23; Conservative 0; Mismatches 19; Indels 0; Gaps 0;

QY 227 GCGTCACCGCGCGGTCGAATAGCATCATGACCTTCA 268
DB 36 GCGTCGACTTGCAGGAGCAGACAGACATCTTGACACCA 77

RESULT 12
US-09-966-880A-11/c
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

Query Match
Best Local Similarity 60.7%; Score 10.4; DB 1; Length 87;
Matches 17; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

QY 186 CTTCTGTGAGGACCGCAGGCTGAGCCC 213
DB 62 CTTCTTGCTCTCCTCTGCAAGTCTCAGGCC 35

RESULT 13
US-09-966-880A-14/c
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27

```

```

; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match
Best Local Similarity 52.4%; Score 10; DB 1; Length 116;
Matches 22; Conservative 0; Mismatches 20; Indels 0; Gaps 0;

QY 228 GCGTCACCGCGCGGTCGAATAGCATCATGACCTTCAA 269
DB 69 GCAGCCCTTCCAGGCTTGAAAGTTCTTGGTGTTCTTA 28

RESULT 14
US-09-966-880A-14
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

Query Match
Best Local Similarity 57.1%; Score 8.8; DB 1; Length 116;
Matches 16; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

QY 244 GTGCAATAGCATCATGACCTTCAAG 271
DB 27 GTAGAAACCAAGCAAGAACTTCAAG 54

Search completed: March 10, 2004, 13:40:48
Job time : 3.31421 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model
Run on: March 10, 2004, 13:38:36 ; Search time 0.990586 Seconds
(without alignments)
3.483 Million cell updates/sec

Title: US-09-966-880A-14
Perfect score: 116
Sequence: 1 atatttttactgttggaat.....agcttcggcgcatcctttg 116

```


US-09-966-880A-10

Query Match 14.7%; Score 17; DB 1; Length 6564;
 Best Local Similarity 52.1%; Pred. No. 1.9;
 Matches 38; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 4 ATTTTACTGCTGGAACTTTTGTGAAACCGAAGAACTTTCAAGCTGGAG 63
 DB 3178 AGATTTCAGCACTAAATAATCTTCAAAAAAAAAAGAAAAAGCGGGGATA 3119

QY 64 GCCTGCATGAAA 76
 DB 3118 TGGGGTAAAGA 3106

RESULT 4

US-09-966-880A-9
 Sequence 9, Application US/09966880A

GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 PRIOR FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 9
 LENGTH: 5514
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1)...(1031)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1032)...(1118)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1119)...(5514)
 US-09-966-880A-9

Query Match 14.0%; Score 16.2; DB 1; Length 5514;
 Best Local Similarity 52.2%; Pred. No. 2.3;
 Matches 36; Conservative 0; Mismatches 33; Indels 0; Gaps 0;

QY 30 GAAACACGAAAGACTTTCAAGCTGGAAAGGCTCAGAAATTCAGTCTC 89
 DB 4437 GAAGAGCTGCAAGAGGAAGAGCTCTGCTGGGCTGAGAGCTGATTCAGGTTCTGA 4496

QY 90 TCCAGACAG 98
 DB 4497 TCCTGACTG 4505

RESULT 5

US-09-966-880A-15/c
 Sequence 15, Application US/09966880A

GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 CURRENT FILING DATE: 2001-09-28

PRIOR APPLICATION NUMBER: PCT/JP00/01918

PRIOR FILING DATE: 2000-03-28

PRIOR APPLICATION NUMBER: JP 11-371382

PRIOR FILING DATE: 1999-12-27

PRIOR APPLICATION NUMBER: JP 11-178999

PRIOR FILING DATE: 1999-06-24

PRIOR APPLICATION NUMBER: JP 11-87192

PRIOR FILING DATE: 1999-03-29

NUMBER OF SEQ ID NOS: 36

SOFTWARE: FastSeq for Windows Version 4.0

SEQ ID NO 15

LENGTH: 2172

TYPE: DNA

ORGANISM: Homo sapiens

US-09-966-880A-15
 Sequence 15, Application US/09966880A

GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 PRIOR FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 9
 LENGTH: 5514
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1)...(1031)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1032)...(1118)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1119)...(5514)
 US-09-966-880A-9

Query Match 12.8%; Score 14.8; DB 1; Length 5514;
 Best Local Similarity 59.5%; Pred. No. 2.4;
 Matches 25; Conservative 0; Mismatches 17; Indels 0; Gaps 0;

QY 16 GGAATCTTTTGTGAAACCGAAGAACTTTCAAGCT 57
 DB 703 GTAATATTATGTAAATACCTTAAGGACTTTAAATAGCTT 662

Query Match 13.8%; Score 16; DB 1; Length 2172;
 Best Local Similarity 50.0%; Pred. No. 5.5;
 Matches 40; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

QY 7 TTACTGCTGAAATCTTTGTGAAACCGAAGAACTTTCAAGCTGGAGG 66
 DB 2032 TTGCTGTCAATAAGTTACTTAATAAGAGAAATGGCTTGTAGACACCTTACTGC 1973

QY 67 TGCATGAAATTCAGTCT 86
 DB 1972 AATGTTCAATTCATTCGT 1953

US-09-966-880A-9/c
 Sequence 9, Application US/09966880A

GENERAL INFORMATION:
 APPLICANT: Honjo, Tasuku
 APPLICANT: Muramatsu, Masamichi
 TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 FILE REFERENCE: 06501-088001
 CURRENT APPLICATION NUMBER: US/09/966,880A
 PRIOR FILING DATE: 2001-09-28
 PRIOR APPLICATION NUMBER: PCT/JP00/01918
 PRIOR FILING DATE: 2000-03-28
 PRIOR APPLICATION NUMBER: JP 11-371382
 PRIOR FILING DATE: 1999-12-27
 PRIOR APPLICATION NUMBER: JP 11-178999
 PRIOR FILING DATE: 1999-06-24
 PRIOR APPLICATION NUMBER: JP 11-87192
 PRIOR FILING DATE: 1999-03-29
 NUMBER OF SEQ ID NOS: 36
 SOFTWARE: FastSeq for Windows Version 4.0
 SEQ ID NO 9
 LENGTH: 5514
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1)...(1031)
 FEATURE:
 NAME/KEY: exon
 LOCATION: (1032)...(1118)
 FEATURE:
 NAME/KEY: intron
 LOCATION: (1119)...(5514)
 US-09-966-880A-9


```

; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match      8.3%; Score 9.6; DB 1; Length 87;
Best Local Similarity 56.2%; Pred. No. 1.4e+02;
Matches 18; Conservative 0; Mismatches 14; Indels 0; Gaps 0;

```

```

QY      25 TTGTGAGAAACGACGAAAGACTTTCAGGCC 56
DB      45 TTGACGAGGAGCAGAAAGACTCTGACACCC 76

```

```

RESULT 12
US-09-966-880A-12
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

```

```

Query Match      7.8%; Score 9; DB 1; Length 148;
Best Local Similarity 100.0%; Pred. No. 87;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY      107 CATCCTTTT 115
DB      111 CATCCTTTT 119

```

```

RESULT 13
US-09-966-880A-13
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku

```

```

; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

```

```

Query Match      7.6%; Score 8.8; DB 1; Length 271;
Best Local Similarity 57.1%; Pred. No. 50;
Matches 16; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

```

```

QY      27 GTGAGAAACGACGAAAGACTTTCAGG 54
DB      244 GTGCAATAGCATCATGACCTTCAGG 271

```

```

RESULT 14
US-09-966-880A-11/c
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match      7.2%; Score 8.4; DB 1; Length 87;
Best Local Similarity 57.7%; Pred. No. 1.5e+02;
Matches 15; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

```

```

QY      88 TCTCCAGACGCTTCGGCGCATCCTT 113
DB      74 TGTCCAGAGTGTCTTCTTGCCTCCCT 49

```

```

Search completed: March 10, 2004, 13:40:48
Job time : 0.990586 secs

```


QY 961 CCAATCAGGTGAGGTTGCTACATTGTTATGTTGATGCTTCCCAAGATATAT 1020
DB 961 CCAATCAGGTGAGGTTGCTACATTGTTATGTTGATGCTTCCCAAGATATAT 1020
QY 1021 TAACTATATTAAGAGGTTGTGACAAACAGATGATTAAGCTGGACCCGACACGC 1080
DB 1021 TAACTATATTAAGAGGTTGTGACAAACAGATGATTAAGCTGGACCCGACACGC 1080
QY 1081 TCAATGTTCTACCTGCTGGAGGTTGAGAGGAGGATGCTTGAACAAGGTTCAA 1140
DB 1081 TCAATGTTCTACCTGCTGGAGGTTGAGAGGAGGATGCTTGAACAAGGTTCAA 1140
QY 1141 GGCCAGCTGGGCAACATACAGATCCCTGCTCAAAAAAAAAAAAAAAAAAGAAA 1200
DB 1141 GGCCAGCTGGGCAACATACAGATCCCTGCTCAAAAAAAAAAAAAAAAAAGAAA 1200
QY 1201 GAGAGAGGCGCGGCGTGTGCTCAAGCTGTAAATCCAGACATTTGGAGGCGGAGCC 1260
DB 1201 GAGAGAGGCGCGGCGTGTGCTCAAGCTGTAAATCCAGACATTTGGAGGCGGAGCC 1260
QY 1261 GGGCGGATACCTGTGTGTGAGAGATTTGAGACCAAGCTGGCCAAATGGCAAAACCCCGT 1320
DB 1261 GGGCGGATACCTGTGTGTGAGAGATTTGAGACCAAGCTGGCCAAATGGCAAAACCCCGT 1320
QY 1321 CTGTACTCAAAATGCAAAATTAAGCCAGGCGTGTAGAGAGGCACTGTATCCAGCTAC 1380
DB 1321 CTGTACTCAAAATGCAAAATTAAGCCAGGCGTGTAGAGAGGCACTGTATCCAGCTAC 1380
QY 1381 TTGGAGGCTGAGGAGGAGAAATGCTTGAACCAAGAGTGTGAGGTTGAGTAAGCTGA 1440
DB 1381 TTGGAGGCTGAGGAGGAGAAATGCTTGAACCAAGAGTGTGAGGTTGAGTAAGCTGA 1440
QY 1441 GATCGTCCGTTGCTCAAGCTGGGCGACAGAGCAAGCTCTGTCTCAGAAAAAAA 1500
DB 1441 GATCGTCCGTTGCTCAAGCTGGGCGACAGAGCAAGCTCTGTCTCAGAAAAAAA 1500
QY 1501 AAAAAAAGAT 1560
DB 1501 AAAAAAAGAT 1560
QY 1561 TGCAAGAAATGTTGCTTATCAACAAATGTAAAGAGCAATTAAGGATCCCTATTG 1620
DB 1561 TGCAAGAAATGTTGCTTATCAACAAATGTAAAGAGCAATTAAGGATCCCTATTG 1620
QY 1621 TCTCTTTGCTGTCTATTTTGTCCCTAACACCTGCTTTGACAGTGAAGAAAAATATTCGA 1680
DB 1621 TCTCTTTGCTGTCTATTTTGTCCCTAACACCTGCTTTGACAGTGAAGAAAAATATTCGA 1680
QY 1681 ATACACATATCCCTGTGCGGTATTAACCTAGCAACCTTGAAGAGAGAGAGAGATCC 1740
DB 1681 ATACACATATCCCTGTGCGGTATTAACCTAGCAACCTTGAAGAGAGAGAGAGATCC 1740
QY 1741 ACAGAGAACTGAAATGCAACAATGCTTATTTATCTTATTTGATCAATTTGTTAA 1800
DB 1741 ACAGAGAACTGAAATGCAACAATGCTTATTTATTTATTTGATCAATTTGTTAA 1800
QY 1801 AGAGTAAAAATTTGTTACTTCAATGATCAATTAATTTATTTATTTTGGCTTAATG 1860
DB 1801 AGAGTAAAAATTTGTTACTTCAATGATCAATTAATTTATTTATTTTGGCTTAATG 1860
QY 1861 ATTTTATTAATACATATTTCTTTTCTGATATATTTGAATGAGCTCAAAAGCTTCA 1920
DB 1861 ATTTTATTAATACATATTTCTTTTCTGATATATTTGAATGAGCTCAAAAGCTTCA 1920
QY 1921 AATTTATTAATTAAGAAATGATCTTAATTAACAAGATTAATTTGATTTGAGCTAT 1980
DB 1921 AATTTATTAATTAAGAAATGATCTTAATTAACAAGATTAATTTGATTTGAGCTAT 1980
QY 1981 GGTGTACAGAGGCAATTTCTTGTATTTTGAATTTTGAAGCAATTTGCTTC 2040
DB 1981 GGTGTACAGAGGCAATTTCTTGTATTTTGAATTTTGAAGCAATTTGCTTC 2040

QY 2041 TGCTCACTTGAATCAAGTAAATTAATGATTAATTTTGAAGCTGTGAAGATAAA 2100
DB 2041 TGCTCACTTGAATCAAGTAAATTAATGATTAATTTTGAAGCTGTGAAGATAAA 2100
QY 2101 TACCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2160
DB 2101 TACCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2160
QY 2161 GGAATTAATTTG 2172
DB 2161 GGAATTAATTTG 2172

RESULT 2
US-09-966-880A-10
Sequence 10, Application US/09966880A
GENERAL INFORMATION:
APPLICANT: Honjo, Tazuku
TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
FILE REFERENCE: 06501-088001
CURRENT APPLICATION NUMBER: US/09/966,880A
CURRENT FILING DATE: 2001-09-28
PRIOR APPLICATION NUMBER: PCT/JP00/01918
PRIOR FILING DATE: 2000-03-28
PRIOR APPLICATION NUMBER: JP 11-371382
PRIOR FILING DATE: 1999-12-27
PRIOR APPLICATION NUMBER: JP 11-178999
PRIOR FILING DATE: 1999-06-24
PRIOR APPLICATION NUMBER: JP 11-871192
NUMBER OF SEQ ID NOS: 36
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 10
LENGTH: 6564
TYPE: DNA
ORGANISM: Homo sapiens
US-09-966-880A-10

Query Match 100.0%; Score 2172; DB 1; Length 6564;
Best Local Similarity 100.0%; Pred. No. 2,8e-58;
Matches 2172; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCCTGATGAGGTTGATGACTTACAGAGAGCAATTTGACTTTGGACTTTGATGCA 60
DB 3741 CCCCTGATGAGGTTGATGACTTACAGAGAGCAATTTGACTTTGGACTTTGATGCA 3800
QY 61 CTTCAGAAATGTCAACAAGATGAATATCTGTGTAAGACAGTGAATAAAAACAGT 120
DB 3801 CTTCAGAAATGTCAACAAGATGAATATCTGTGTAAGACAGTGAATAAAAACAGT 3860
QY 121 CTTGAAGCTTCTCTGTTTTTATCTTCAACCTCACTTCTTAAGATTACAAAAA 180
DB 3861 CTTGAAGCTTCTCTGTTTTTATCTTCAACCTCACTTCTTAAGATTACAAAAA 3920
QY 181 AATTTATTAAGACCTTTAAAAAGATCTAGTCTGAAAAATAGAGAGAGACAGAGT 240
DB 3921 AATTTATTAAGACCTTTAAAAAGATCTAGTCTGAAAAATAGAGAGAGACAGAGT 3980
QY 241 CTGGCCAGGAGCGTGTCAATTTGTGAGTTTGAATGCAATTTGCCCTACTGGGA 300
DB 3981 CTGGCCAGGAGCGTGTCAATTTGTGAGTTTGAATGCAATTTGCCCTACTGGGA 4040
QY 301 ATAAACAAGTCAAGACCTGGAGGATCTTAAGTCAAGCTTTTCTATGACTTTTA 360
DB 4041 ATAAACAAGTCAAGACCTGGAGGATCTTAAGTCAAGCTTTTCTATGACTTTTA 4100
QY 361 GGTGATGAGAGAGAGAGATTAATCTTAAGAGATGGAGAGAGATCAATGTTTAA 420
DB 4101 GGTGATGAGAGAGAGAGATTAATCTTAAGAGATGGAGAGAGATCAATGTTTAA 4260
QY 421 TATCAATCCCTTATTAATTTGATTTCAATTTGAATTAACAGTGTGTTAGATGATTT 480

Db 4161 TATCAATCTTTATTTGATTCATTGAGTTAAACAGTGGTGTGATGATGATTT 4220
 Qy 481 TCTATCTTTCCCTTACGTTTACTTCAAGTAACAAACCTCTTCATCAGGCCATGA 540
 Db 4221 TCTATCTTTCCCTTACGTTTACTTCAAGTAACAAACCTCTTCATCAGGCCATGA 4280
 Qy 541 TCTATGAGACCTCTTAATGAGATATCTGGGTGATGTGACCCCAACATCTCTCCAA 600
 Db 4281 TCTATGAGACCTCTTAATGAGATATCTGGGTGATGTGACCCCAACATCTCTCCAA 4340
 Qy 601 GCATTAATATCCATCATGCGCTGTATGTTTATCAGCAAGAACATGTTTATGTTTG 660
 Db 4341 GCATTAATATCCATCATGCGCTGTATGTTTATCAGCAAGAACATGTTTATGTTTG 4400
 Qy 661 TACAAAGAAAGATGTTATGSGTGGGATGAGAGTATAGACATGATGATGATGATGAT 720
 Db 4401 TACAAAGAAAGATGTTATGSGTGGGATGAGAGTATAGACATGATGATGATGATGAT 4460
 Qy 721 GCTACTTTAATAAAGATCTTAAATGGGACAGAGACGTGTGACAAAGACACCTATATA 780
 Db 4461 GCTACTTTAATAAAGATCTTAAATGGGACAGAGACGTGTGACAAAGACACCTATATA 4520
 Qy 781 TGGGTGATGTCTGAGTAGCAAACTCTTGGAAACGCAAACTCTTTTAAAGAAATCCT 840
 Db 4521 TGGGTGATGTCTGAGTAGCAAACTCTTGGAAACGCAAACTCTTTTAAAGAAATCCT 4580
 Qy 841 AATTTAGAAACACCAACCACTTCATCATATCATATTAAGCAACAAATTGGAAGAAATTG 900
 Db 4581 AATTTAGAAACACCAACCACTTCATCATATCATATTAAGCAACAAATTGGAAGAAATTG 4640
 Qy 901 CTGATATGTTGGGAGAGAAATCTATGTCGTGGGTCTCTCATCTCAGAAATG 960
 Db 4641 CTGATATGTTGGGAGAGAAATCTATGTCGTGGGTCTCTCATCTCAGAAATG 4700
 Qy 961 CCAATCAGTCAAGTTTGTCTACATTTGTATGTGTGATGATGCTTCTCCAAAGTATAT 1020
 Db 4701 CCAATCAGTCAAGTTTGTCTACATTTGTATGTGTGATGATGCTTCTCCAAAGTATAT 4760
 Qy 1021 TAACTATTAAGAGATGTGTACAAACAGATATATTAAGTGGAAACGTGGACACGC 1080
 Db 4761 TAACTATTAAGAGATGTGTACAAACAGATATATTAAGTGGAAACGTGGACACGC 4820
 Qy 1081 TCATAGTCTGAGCTGCTGGAGGTGAGAGAGGAGATGGCTTGAACAAGGTTCAA 1140
 Db 4821 TCATAGTCTGAGCTGCTGGAGGTGAGAGAGGAGATGGCTTGAACAAGGTTCAA 4880
 Qy 1141 GACCGACCTGGGCAACATPACAGATCTGTCTCAAAAAAAAAAAAAAAAAAGAAA 1200
 Db 4881 GACCGACCTGGGCAACATPACAGATCTGTCTCAAAAAAAAAAAAAAAAAAGAAA 4940
 Qy 1201 GAGAGAGGCGCGGGGTGTGCTCAAGCTGTATATCCAGACATTTGGAGGCGGAGCC 1260
 Db 4941 GAGAGAGGCGCGGGGTGTGCTCAAGCTGTATATCCAGACATTTGGAGGCGGAGCC 5000
 Qy 1261 GGGCGGATCACTGTGTGTGAGAGATTTAGACACGCTGTGCAACATGGCAAAACCCCGT 1320
 Db 5001 GGGCGGATCACTGTGTGTGAGAGATTTAGACACGCTGTGCAACATGGCAAAACCCCGT 5060
 Qy 1321 CTGTACTCAAAATGCAAAATTTAGACAGGCGGTGTGAGAGACACCTGTATCCAGCTAC 1380
 Db 5061 CTGTACTCAAAATGCAAAATTTAGACAGGCGGTGTGAGAGACACCTGTATCCAGCTAC 5120
 Qy 1381 TTGGAGAGCTGAGGAGAGATCGCTTGAACCAAGAGAGTGAAGTGTGAGTGAAGCTGA 1440
 Db 5121 TTGGAGAGCTGAGGAGAGATCGCTTGAACCAAGAGAGTGAAGTGTGAGTGAAGCTGA 5180
 Qy 1441 GATGCTGCTGTGCACTCAAGCTGGGCGACAAGAGCAAGCTGTGTCTCAAAAAAAAA 1500
 Db 5181 GATGCTGCTGTGCACTCAAGCTGGGCGACAAGAGCAAGCTGTGTCTCAAAAAAAAA 5240
 Qy 1501 AAAAAAAAAAG 1560
 Db 5241 AAAAAAAAAAG 5300

Qy 1561 TCGAAGAAATTTGCTTTATCCAAACAAATGTAAGAGCCAAATPAGGATCCATTTG 1620
 Db 5301 TCGAAGAAATTTGCTTTATCCAAACAAATGTAAGAGCCAAATPAGGATCCATTTG 5360
 Qy 1621 TCTCTTTGGTGTCTATTTGTCCTTACAAACTGTCTTTGACAGAGAGAGAGAGAG 1680
 Db 5361 TCTCTTTGGTGTCTATTTGTCCTTACAAACTGTCTTTGACAGAGAGAGAGAGAG 5420
 Qy 1681 ATACCAATATCCCTGCGGATTTATACAGCAACCTTGAATGAAGATGAGAGATCC 1740
 Db 5421 ATACCAATATCCCTGCGGATTTATACAGCAACCTTGAATGAAGATGAGAGATCC 5480
 Qy 1741 ACAGAAACCTGAATGACAAACTGTCTTTATCTTATTTGATGACAAAGTTGTAAA 1800
 Db 5481 ACAGAAACCTGAATGACAAACTGTCTTTATTTTATCTTATTTGATGACAAAGTTG 5540
 Qy 1801 AGAGTTAAATTTGTTACTTCAATGATTCATTTATTTATTTATTTTGGCTTAATG 1860
 Db 5541 AGAGTTAAATTTGTTACTTCAATGATTCATTTATTTATTTATTTTGGCTTAATG 5600
 Qy 1861 AATTTTATTAACATGATTTCTTTCTGATATATATGAAATGAGTCTCAAGCTTCATA 1920
 Db 5601 AATTTTATTAACATGATTTCTTTCTGATATATATGAAATGAGTCTCAAGCTTCATA 5660
 Qy 1921 AATTTATACCTTGAATGATTTCTATATACAAAGTATGATTTGATGATTTGATGAT 1980
 Db 5661 AATTTATACCTTGAATGATTTCTATATACAAAGTATGATTTGATGATTTGATGAT 5720
 Qy 1981 GGTGCTACGACCACTTTCTCTGATTTTGTAGTAACTTTATGACAGCAATTTGCTTC 2040
 Db 5721 GGTGCTACGACCACTTTCTCTGATTTTGTAGTAACTTTATGACAGCAATTTGCTTC 5780
 Qy 2041 TGGCTCACTTCAATGATTTAAATTAATGATTAATTAATTTTGGAAAGCTGTGAAATAAA 2100
 Db 5781 TGGCTCACTTCAATGATTTAAATTAATGATTAATTAATTTTGGAAAGCTGTGAAATAAA 5840
 Qy 2101 TACCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 2160
 Db 5841 TACCAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAATTAAT 5900
 Qy 2161 GGAATTAACCTG 2172
 Db 5901 GGAATTAACCTG 5912

RESULT 3
 US-09-966-880A-9/c
 ; Sequence 9 Application US/09966880A
 ; GENERAL INFORMATION:
 ; APPLICANT: Honjo, Tasuku
 ; APPLICANT: Muramatsu, Masamichi
 ; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
 ; FILE REFERENCE: 06501-088001
 ; CURRENT APPLICATION NUMBER: US/09/966,880A
 ; CURRENT FILING DATE: 2001-09-28
 ; PRIOR APPLICATION NUMBER: PCT/JP00/01918
 ; PRIOR FILING DATE: 2000-03-28
 ; PRIOR APPLICATION NUMBER: JP 11-371382
 ; PRIOR FILING DATE: 1999-12-27
 ; PRIOR APPLICATION NUMBER: JP 11-178999
 ; PRIOR FILING DATE: 1999-06-24
 ; PRIOR APPLICATION NUMBER: JP 11-87192
 ; PRIOR FILING DATE: 1999-03-29
 ; NUMBER OF SEQ ID NOS: 36
 ; SOFTWARE: PaeSeq for Windows Version 4.0
 ; SEQ ID NO 9
 ; LENGTH: 5514
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 ; FEATURE:
 ; NAME/KEY: Intron
 ; LOCATION: (1)...(1031)

```

FEATURE:
NAME/KEY: exon
LOCATION: (1032)...(1118)
FEATURE:
NAME/KEY: intron
LOCATION: (1119)...(5514)
US-09-966-880A-9

```

```

Query Match      8.2% Score 178.6; DB 1; Length 5514;
Best Local Similarity 83.1% Pred. No. 0.12;
Matches 202; Conservative 1; Mismatches 40; Indels 0; Gaps 0;

```

```

QY 1272 CTGTGATCAGAGATTGAGACCAAGCTGCGCAATGCAAAACCCCTCTGTACTCAA 1331
DB 5512 CTGAGGTGAGAGATTGAGACCAAGCTGCGCAATGTAAGAAACCCCTCTGTACTCAA 5453
QY 1332 ATGCAAAATTAGCCAGGCGGTGTGACAGGCACTGTATCCCACTACTTGGAGGCTG 1391
DB 5452 ATACAAACATTAGCCAGGCGGTGTGAGGCGCTGTATCCCACTACTTGGAGGCTG 5393
QY 1392 AGCGAGAGAAATCGCTTTGAAACCAAGAGTGGAGTTGCAATGCTGAGATCGGCGT 1451
DB 5392 AGCGAGAGCTTTGCTTGAACCAAGAGTGGAGTTGAGCTATGATCATGCCAT 5333
QY 1452 TGCACCTCCAGCTGGGCGCAAGAGCAAGACTCTGTCTCAGAAAAAAGAG 1511
DB 5332 TCCACTCCAGCATGGGCAACAGCAACCAATCTCTCAAAAAAAGAG 5273
QY 1512 AGA 1514
DB 5272 AAA 5270

```

```

RESULT 4
US-09-966-880A-9
; Sequence 9, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 5514
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1)...(1031)
; FEATURE:
; NAME/KEY: exon
; LOCATION: (1032)...(1118)
; FEATURE:
; NAME/KEY: intron
; LOCATION: (1119)...(5514)
; US-09-966-880A-9

```

```

Query Match      8.0% Score 174.2; DB 1; Length 5514;
Best Local Similarity 74.8% Pred. No. 0.16;
Matches 255; Conservative 0; Mismatches 78; Indels 8; Gaps 3;

```

```

QY 1194 AAGAAAGAGAGAGGCGGCGTGTGCTCAAGCTGTATCCAGACCTTTGGAGAG 1253

```

```

DB 3542 AAGTGAACAGACACCAAGGTGTGTGCTACCCCTGTATCCAGACCTCTGGAGG 3601
QY 1254 CCGAGCCGGCGGATCACCTGTGTCAAGAGTTGAGACCAAGCTTGGCAATGGCAAA 1313
DB 3602 CTGAGGTGTGTGATCGCTTGAAGCCCTGGAGTTCAAGACCAAGCTTGAACATGGCAAA 3661
QY 1314 ACCCGCTCTGTACTCAAAATGCAAAATTTAGCCAGGCGGTGTGAGAGCACTGTATCC 1373
DB 3662 ACCCTGTCTTCT-----ATACAAAAATTTAGCCAGGCGGTGTGAGATGTGCTGTGTC 3715
QY 1374 CAGCTACTTGGAGAGGTGAGAGAGATCGCTTGAACCCAGAGGTGAGAGTTGCAAGT 1433
DB 3716 CAGCTACTTGGAGG-GGCTGAGGAGAGAGATCTTTGAGCCAGAGGTCAAGGCTGCACT 3774
QY 1434 AAGCTAGATCGGCGGTGTGCACTCCAGGCTGGGCGACAAAGAGCAAGACTGTCTCAGA 1493
DB 3775 GAGCACTGTGTTGGCCACTGCACTCCAGCTGGGTGACAGAG-CCAGACCTTGCTCAAA 3833
QY 1494 AAAAAAAAAAAGAGAGAGAGAGAGAAAGAAACAATA 1534
DB 3834 AAAAAAAAAAATTAATAATTAATGAACAACTACA 3874

```

```

RESULT 5
US-09-966-880A-10/c
; Sequence 10, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 10
; LENGTH: 6564
; TYPE: DNA
; ORGANISM: Homo sapiens
; US-09-966-880A-10

```

```

Query Match      1.4% Score 29.4; DB 1; Length 6564;
Best Local Similarity 56.8% Pred. No. 1.97
Matches 54; Conservative 0; Mismatches 41; Indels 0; Gaps 0;

```

```

QY 1495 AAAAAAAAAAAGAGAGAGAGAGAGAAAGAAACATATTTGGAGAGAGAGATGGGG 1554
DB 3489 AAGCAACAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3430
QY 1555 AAGCATTGCAAGAGAAATGTGCTTTATCCAAACA 1589
DB 3429 AAGCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3395

```

```

RESULT 6
US-09-966-880A-15/c
; Sequence 15, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28

```

```

; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15
; LENGTH: 2172
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-15

```

```

Query Match          1.2%; Score 26; DB 1; Length 2172;
Best Local Similarity 59.5%; Pred. No. 5.7;
Matches 44; Conservative 0; Mismatches 30; Indels 0; Gaps 0;

```

```

QY 1775 AATCTATTGACATTAAGTTGTAAGTAAAGTTAAATTTGCTTCACTGATTCATTTA 1834
Db 1848 AATATATATAAATATATAATGATACGAGTAACCAATTTTACTCTTTACAACCTTA 1789
QY 1835 TATTTTATATTATT 1848
Db 1788 TGTACATTAAGATT 1775

```

RESULT 7

```

US-09-966-880A-14/c
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

```

```

Query Match          0.7%; Score 16; DB 1; Length 116;
Best Local Similarity 50.0%; Pred. No. 26;
Matches 40; Conservative 0; Mismatches 40; Indels 0; Gaps 0;

```

```

QY 1955 AGTATGTAATGTAACATTCAGTAATGCTCTACGAAGCATTTCTTGATTTTAG 2012
Db 86 ACGAAGTAATTTTATGACGACCTCCAGGCTTTGAAGTTCTTGCTGTTTTCAC 27
QY 2013 TAACTTTATGACAGCAAA 2032
Db 26 AAAAGTATTCAGCAGTAAA 7

```

```

RESULT 8
US-09-966-880A-12
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku

```

```

; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

```

```

Query Match          0.7%; Score 14.8; DB 1; Length 148;
Best Local Similarity 56.0%; Pred. No. 35;
Matches 28; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

```

```

QY 1876 GATTCCTTTCTGATATATGAAATGAGTCTCAAGCTTCATTAATT 1925
Db 70 GACTTACTGTGCTAGCTAGTGAAGGCGGTACAGTGTATATCTTTT 119

```

RESULT 9

```

US-09-966-880A-12/c
; Sequence 12, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 12
; LENGTH: 148
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-12

```

```

Query Match          0.7%; Score 14.8; DB 1; Length 148;
Best Local Similarity 64.7%; Pred. No. 35;
Matches 22; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

```

```

QY 1523 AAGAGAACATATTTGGGAGAGAGATGGGGA 1556
Db 139 AAGATACCAAAAGTCCAGTGAAAAGATGTAGCA 106

```

```

RESULT 10
US-09-966-880A-11
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001

```

```

; CURRENT APPLICATION NUMBER: US/09/966,880A
; CURRENT FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match      0.7%; Score 14.4; DB 1; Length 87;
Best Local Similarity 65.6%; Pred. No. 21;
Matches 21; Conservative 0; Mismatches 11; Indels 0; Gaps 0;

```

```

QY      227 GAAGAACACAGCTGCGCCAGGACGTGCTG 258
DB      19 GAAGTACATTTTCTGCGCTGACACTTGCA 50

```

```

RESULT 11
; Sequence 14, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 116
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-14

```

```

Query Match      0.6%; Score 13.8; DB 1; Length 116;
Best Local Similarity 63.6%; Pred. No. 30;
Matches 21; Conservative 0; Mismatches 12; Indels 0; Gaps 0;

```

```

QY      1545 AAGGATGGGAAAGCATTTGCAAGAAATTGTGCT 1577
DB      51 AAGGCTGGGAAAGGCTGCATGAAATTCAGTT 83

```

```

RESULT 12
; Sequence 11, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918

```

```

; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 11
; LENGTH: 87
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-11

```

```

Query Match      0.6%; Score 13.4; DB 1; Length 87;
Best Local Similarity 52.7%; Pred. No. 23;
Matches 29; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

```

```

QY      1777 TCTTATGTACATTAAGTTGTAAAGTTAAATGTTACTGATGATTCAT 1831
DB      63 TCTTCTTGCTCCCTCCTCAAGTCTCAGGCCAGAAATTCATCTCAATTATGAT 9

```

```

RESULT 13
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27
; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

```

```

Query Match      0.6%; Score 13.4; DB 1; Length 271;
Best Local Similarity 52.7%; Pred. No. 41;
Matches 29; Conservative 0; Mismatches 26; Indels 0; Gaps 0;

```

```

QY      307 GAATGACAGACTGGAGCATCTAAAGTGTCAACGTTTTCTATGACTTTAG 361
DB      87 GAACACGTGACCGCGGTACAGCGCCAGCGGTCTAGTCCCGAGATGATAG 33

```

```

RESULT 14
; Sequence 13, Application US/09966880A
; GENERAL INFORMATION:
; APPLICANT: Honjo, Tasuku
; APPLICANT: Muramatsu, Masamichi
; TITLE OF INVENTION: NOVEL CYTIDINE DEAMINASE
; FILE REFERENCE: 06501-088001
; CURRENT APPLICATION NUMBER: US/09/966,880A
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: PCT/JP00/01918
; PRIOR FILING DATE: 2000-03-28
; PRIOR APPLICATION NUMBER: JP 11-371382
; PRIOR FILING DATE: 1999-12-27

```


; PRIOR APPLICATION NUMBER: JP 11-178999
; PRIOR FILING DATE: 1999-06-24
; PRIOR APPLICATION NUMBER: JP 11-87192
; PRIOR FILING DATE: 1999-03-29
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 13
; LENGTH: 271
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-966-880A-13

Query Match 0.6%; Score 12; DB 1; Length 271;
Best Local Similarity 48.5%; Pred. No. 42;
Matches 33; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

QY 522 CTCTTCATCAGGCGCATATCTATAGAACTCTCTATAGAGATATCTGGGTGATTGTGAC 581
DB 87 CACCTCTGTGAGGCCCTGTCTACGACTGTGCCCGACATGTGGCCGACTTTCTGCGAGGGAA 146
QY 582 CCCAACC 589
DB 147 CCCAACC 154

Search completed: March 10, 2004, 13:40:49
Job time : 19.5479 secs